

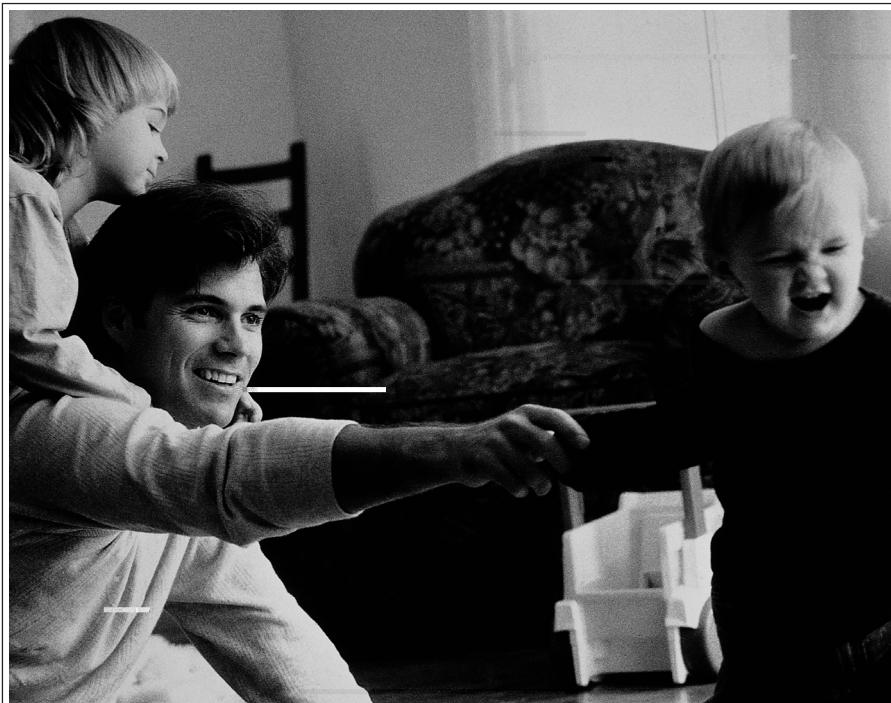
**DOUBLEFEATURE™**



Omnivision VHS

**Panasonic®**

**DVD/VCR DECK**  
**Operating Instructions**  
**Model No. PV-D4733S**



Connection and Initial Setup, Proceed to page 12 of 17.



**MULTI FORMAT PLAYBACK**



\*Ability to playback may depend on recording conditions.



An ENERGY STAR Partner, Making an Electric Connection  
of America has demonstrated his leadership in developing  
the ENERGY STAR guidelines for energy efficiency.

Please read the instructions carefully before attempting to connect, operate or adjust his  
product. Please read the manual.

Spanish Quick User Guide included.

(Glossary included in the manual.)

LSQT0673B

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com)

Initial Setup  
(Connection)

Basic  
Operation

VCR  
Operation

DVD  
Operation

For Your  
Information



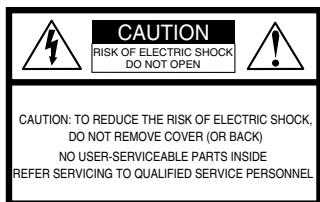
# Safety Precautions/Mesures de sécurité

**WARNING:** To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

**CAUTION:** To prevent electric shock, match wide blade of plug to wide slot, fully insert.

**Avertissement:** Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

**Attention:** Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.



This symbol warns the user of the hazard of electric shock. The electric shock could cause a kind of contact with the inside of the unit.



This symbol alerts the user to the possibility of an electric shock when the unit is opened. The electric shock could be fatal or cause a problem.

## CAUTION:

UNIT IS A CLASS I LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED.

WHEN THIS UNIT IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT ATTEMPT TO REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

## CAUTION:

LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM.

## ATTENTION:

RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.

(In case of problem)

## FCC NOTE:

This equipment has been tested and found to comply with part 15 of the FCC Rules. The limits are designed to provide reasonable protection against harmful interference when the equipment is used in a residential environment. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is advised to take one or more of the following measures:

1. Reconnect the antenna to an external antenna system. 2. Increase the distance between the equipment and the receiver. 3. Consult the dealer or a qualified radio/TV technician for help. The user may find the booklets, 'Some things you should know' and 'FCC local regional office help'.

## FCC Caution:

To assure continued compliance, (e.g., use of shielded interconnect cables when connecting to other devices.) Any change or modification not specified in the user manual is not allowed for compliance certification purposes.

**FCC Warning:** Any unauthorized change or modification to this equipment voids the warranty.

## Region Management Information:

This DECK is designed and manufactured to be used in the Region Management Information has been recorded on a DVD disc. If the Region number is indicated on the DVD disc does not correspond to the Region number of this DECK, this DECK cannot play this disc.

● The Region number for this DECK is 1.

● The Play All DVD-Video marked with label containing 1 or ALL.

## Example:



# Before Using

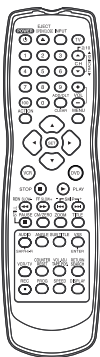
## Congratulations

on o , cha e of one of he mo  
o,hi ica ed and eliable ,o d c on he  
ma ke oda . U ed ,o ,e l , i Will b ing o  
ea of enjo men . Plea e fill in he  
info ma ion belo. The e ial n mbe i on he  
ag loca ed on he back of o DECK.

Da e of P cha e \_\_\_\_\_  
Deale P cha ed Fom \_\_\_\_\_  
Deale Add e \_\_\_\_\_  
Deale Phone No. \_\_\_\_\_  
Model No. **PV-D4733S**  
Se ial No. \_\_\_\_\_

## Accessories

- ☐ Remote Control LSSQ0375 ☐ Battery 2 AA

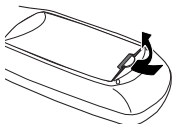


- ☐ RF Coaxial Cable LSJA0372

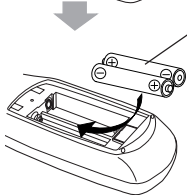


To order accessories, call toll free  
1-800-332-5368.

## Loading the Batteries



1) Open co e .



2) In e ba e ie a  
ma ked.

3) Clo e co e .

- ☐ **Battery replacement caution**

Do no mi old and ne w ba e ie .  
Do no mi alkaline Wh mangan e  
ba e ie .

## Disc formats supported by this DECK

DECK can ,la back di c bea ing an of he follow ng  
ma k : [Discs Played 8cm (3") or 12cm (5")]

Logo	Disc type
	DVD (DVD-Video)
	DVD-R (DVD-Video formatted discs [finalized])
	Video CD
	CD (CD-DA) CD-R/CD-RW (CD-DA, Video CD formatted discs [finalized]) MP3, JPEG

## Discs which cannot be played

DVD Wh Region No. o he han 1 o ALL  
DVD of PAL em, DVD-A dio, DVD-RAM, DVD-ROM,  
DVD-RW, DVD+RW, CD-ROM, CDV, CD-G, CVD, SVCD,  
SACD, Di Video Di c and Pho o-CD

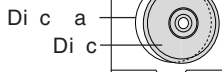
## Notes

- Do no e i eg la l ha ed di c (e.g. hea -  
ha ed), a he e can damage he ni .
- It may not be possible to play CD-R, CD-RW and  
DVD-R in all cases due to the type of disc or  
condition of the recording.

## Disc Handling

### Handling precautions

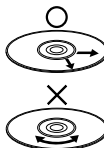
- Sticking a label on he di c ma im ,ai DVD-R  
,la back.
- Do no a ach icke o di c . (Do no e di c  
Wh e ,o ed adhe i e fom a ,e o lef o e  
,eeled-off icke .)
- Onl hold di c b edge a ho Wh belo Wh
- Finge , in , di and c a che can ca e ki ,ing  
and di o ion.
- Do no Wh e on label ide of di c .
- Ne e e eco d cleaning , a , ben ine, hinne ,  
a ic elec ici , e en ion li id , o an o he  
ol en .



Do no o clo e di c a Wh en di c  
i no ,o ,e l ,laced.

### To clean disc surface

Wi ha of, dam , (Wa e onl ) clo h,  
gen l Wh e fom he cen e hole o he  
o e edge a ho Wh belo Wh (Wi ,ing in a  
ci c la ,a en Will c a ch he face.)



**If disc is brought from a cold to a  
warm environment, moisture may  
form on the disc**

Wi e a Wh moi e Wh a of, d , lin-f ee clo h  
befo e ing di c. (See abo e.)

### Improper disc storage

Di c co ld be damaged if o ed o lef in a ea :  
e ,o ed o di ec n ligh .  
ha a e h mid o d .  
nea hea (i.e. hea e , adia o , e c.).

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Initial Setup  
(Connection)

## VCR

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For Your  
Information

# DECK & Cassette Information

## Head Cleaning

Playing old or damaged tape may result in all cassette heads becoming clogged.

### Video Head Clog Sensor

During playback, the sensor detects if clogging is detected. To remove clogs, press **PLAY** on the remote control DECK.

VIDEO HEADS MAY  
NEED CLEANING  
PLEASE INSERT HEAD  
CLEANING CASSETTE  
OR REFER TO MANUAL

END :PLAY

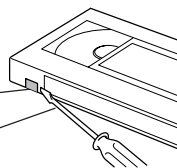
- Use "dry" type head cleaning cassette only. (Panasonic NV-TCL30PT is recommended.) Follow cleaning tape instructions carefully. Exercise of age can shorten head life. If head clogging occurs, contact nearest service center by using our Web Site (see p. 55).

## Prevent Accidental Tape Erasure

Break off the tab of the recording.

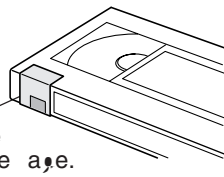
Record Tab

Screwdriver



To record again

Close the hole with cellophane tape.



## Record/ Playback Time

Only use tape with the **VHS** mark in the DECK.

Tape Speed Setting	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hr	2 Hr	2 Hr 40 Min
LP (Long Play)	2 Hr	4 Hr	5 Hr 20 Min
SLP (Super Long Play)	3 Hr	6 Hr	8 Hr

## Cleaning DECK

Use a cloth to clean the surfaces of the deck. Clean the front panel from the ventilation hole on the back side and bottom of the cabinet. Plastic face plate can be cleaned with alcohol and a soft cloth. Avoid use of oil-based fluids, which may cause the material used in the cabinet to become discolored. We recommend using a non-abrasive, anti-static cleaner and polish.

## Features for a Quality Picture (VCR)

### Digital Auto Picture

Automatically controls the video signal level noise depending on the age condition.

### Digital Auto Tracking

Controls the signal and adjusts for optimum picture quality.

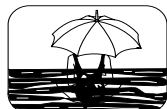
### Manual Tracking Control

(to reduce picture noise)

Use the Playback and Slow Motion mode to reduce picture noise.

Press **CH (TRACKING)** ▲/▼ on the remote control on the DECK until the picture clears.

To enter Auto Tracking, press **POWER** off, then on again a few seconds later.



### V-Lock Control (to reduce picture jitter)

In Still mode, **CH (TRACKING)** ▲/▼ operates as a V-Lock control.

## Specifications

<b>Power Source:</b>	120 V AC, 60 H
<b>Power Consumption:</b>	<b>Power On:</b> Approx. 32 W, <b>Power Off:</b> Approx. 4 W
<b>Video Signal:</b>	EIA Standard NTSC color
<b>Video Recording System:</b>	4 channel helical scanning system
<b>Audio Track:</b>	1 track (No mal), 2 channel (Hi-Fi Audio Sound)
<b>Tuner:</b>	
<b>Broadcast Channels:</b>	VHF 2 ~ 13, UHF 14 ~ 69
<b>CABLE Channels:</b>	Midband A channel (14 ~ 22), Superband J channel W (23 ~ 36) High band AA ~ EEE (37 ~ 64), Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01), UHF band 65 ~ 94, 100 ~ 125
<b>Input/Output Terminal:</b>	Audio/Video Line In/Out, RF In/Out
<b>Input Terminal:</b>	Audio/Video Line In (Front)
<b>Output Terminal:</b>	S-Video Out (DVD only), Component Video Out (DVD only) Audio Out 2 (L), (R)
<b>Operating Temperature:</b>	5 °C ~ 40 °C (41 °F ~ 104 °F)
<b>Operating Humidity:</b>	10 % ~ 75 %
<b>Weight:</b>	4.9 kg (10.8 lb)
<b>Dimensions:</b>	430 (W) 95.5 (H) 344 (D) mm 16-15/16 (W) 3-12/16 (H) 13-9/16 (D) inch
<b>Discs Played</b>	
<b>(1) DVD-Video Disc</b>	5 (12 cm) single-sided single-layer 5 (12 cm) single-sided double-layer 5 (12 cm) double-sided double-layer (one layer per side) 3 (8 cm) single-sided single-layer 3 (8 cm) single-sided double-layer 3 (8 cm) double-sided double-layer (one layer per side)
<b>(2) Compact Disc</b>	5 (12 cm) disc (CD-DA, Video CD) (CD-R/CD-RW, MP3, JPEG)
<b>Digital Audio Output:</b>	Digital Optical Connection
<b>Wavelength:</b>	655 nm (DVD), 790 nm (Video CD/CD)
<b>Class:</b>	CLASS II
<b>Note:</b>	Design and specification are subject to change without notice.

## Definition of Terms (DVD)

<b>Angle:</b>	Some DVD discs feature a canted inner surface to form a different angle. The ANGLE button can be used to view the canted surface from a different angle. (ANGLE indicates the position on DECK when a canted surface is detected.)
<b>Chapter Number:</b>	The area divided into numbered sections. You can quickly reach for a favorite scene during the movie.
<b>DVD:</b>	A high-density optical disc on which high-quality audio and video have been digitally recorded. DVD incorporates a new video compression technology (MPEG II) and high-density recording technology which allows more information to be recorded with incredible playback quality.
<b>Playback Control:</b>	With Video CD (version 2.0), a new information management system for viewing and listening from an interactive menu has appeared on the TV screen.
<b>Subtitles:</b>	Written dialogue which appears at the bottom of the screen.
<b>Time Number:</b>	The elapsed time from the start of a disc file. Use the quick find feature. (Main menu with time display.)
<b>Title Number:</b>	For DVD discs with two movie files, the file is numbered as file 1, file 2, etc.
<b>Track Number:</b>	Number assigned to each on Video CD and CD to allow specific access to be quickly located.
<b>Video CD:</b>	CD containing audio and video with same quality as video tape. This DECK also supports Video CD with playback control (version 2.0).

Approximate Claim of U.S. Patent No. 4,631,603, 4,577,216, 4,819,098 and 4,907,093, licensed for limited use only.

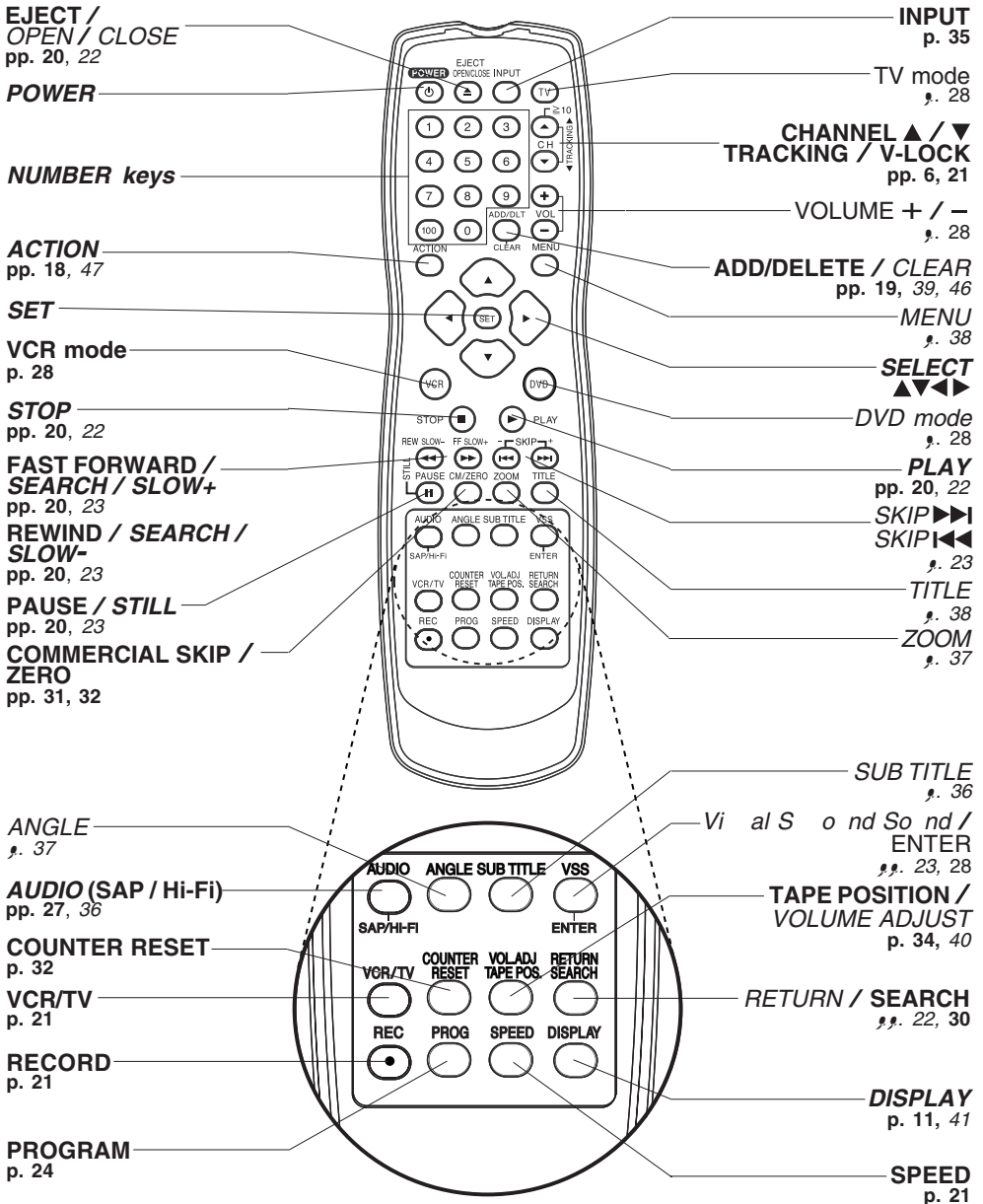
This product incorporates copyright protection technology having been developed by the Motion Picture Copyright Clearance Center, Inc. (MPPCC) and is used under license from MPPCC. The use of this copyright protection technology may be a violation of MPPCC's Motion Picture Copyright Clearance Center, Inc. (MPPCC) and is used under license from MPPCC. The use of this copyright protection technology may be a violation of MPPCC's Motion Picture Copyright Clearance Center, Inc. (MPPCC) and is used under license from MPPCC.



# Location of Controls

## Remote Control

**Bold:** VCR Function  
*Italic:* DVD Function  
**Bold Italic:** VCR and DVD Functions  
 No mal: O he



**EJECT button:** When hi b on i e e d in VCR mode, he a e i e j e c e d.  
 Thi b on i n o e a i e i f e e d d i n g e c o d i n g.  
 I f e e d in DVD mode, he d i c a o e n o c l o e .



Over 2 inches

Remove  
Sensor

## Reset All Memory Functions

Use when moving DECK to new location, or if a mistake was made in the Initial Setup section (return to Factory Setting).

Make sure a sensor is not in the DECK.

- 1 Turn DECK Power on.
- 2 Press and hold both **VCR PLAY** and **CHANNEL ▲** on the DECK for more than 5 seconds.  
The power will turn off.
- 3 Do Initial Setup, (Read on Page 16).

1

2

# Location of Controls (continued)

## Rear View of DECK

**Bold:** VCR Function

*Italic:* DVD Function

**Bold Italic:** VCR and DVD Functions

### AC Power Plug

While plugged in on an AC outlet, the DECK consumes 4 W of electrical power in off mode.

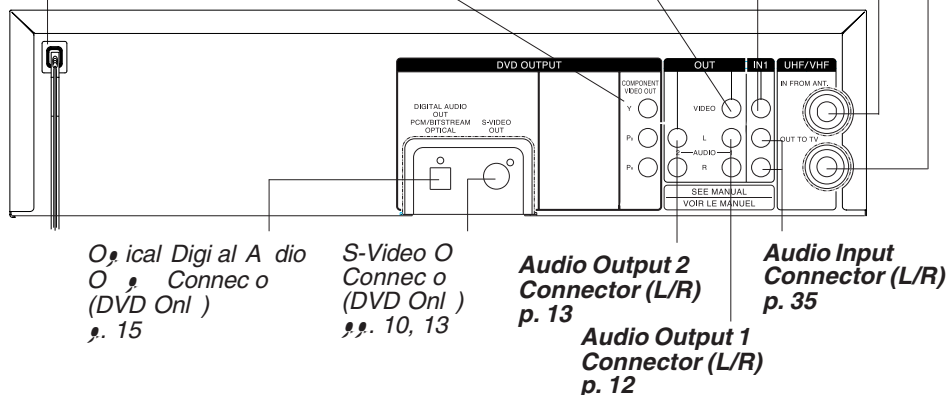
**VHF/UHF Antenna Output Terminal**  
p. 12

**VHF/UHF Antenna Input Terminal**  
p. 12

**Component Video Output Connector** (Y, Pb, Pr) (DVD Only)  
p. 13

**Video Output Connector**  
p. 12

**Video Input Connector**  
p. 35



The following table shows the status of the output jacks when in VCR or DVD mode.

	<b>Video Output Audio Out 1 Audio Out 2</b>	<b>Component Video Output</b>	<b>S-VIDEO OUT</b>
<b>VCR</b>	YES	N/A	N/A
<b>DVD</b>	YES		YES

### Note

PROG function on the remote is not available when using Component Video Output and S-VIDEO OUT. Please use TV to receive RF INPUT or VIDEO INPUT, and then use PROG.

### To enjoy PROGRESSIVE SCAN video

- (1). Connect Component Video Output to the component video input terminal of a television. (See p. 13.)
- (2). When the PROGRESSIVE button is pressed, the ON lamp lights (see p. 9) and the PROGRESSIVE SCAN signal is output from the Component Video Output Connector.

### Note

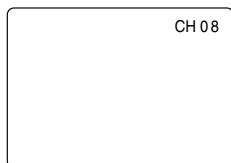
The PROGRESSIVE button can be operated when the DECK is in DVD function mode. The screen may shift off-center when using progressive video. Please adjust the screen position if it occurs. (Refer to TV manual.)

The DECK outputs video signal (no PROGRESSIVE SCAN) from the VIDEO OUT and S-VIDEO OUT terminals when the ON lamp lights.

# Displays (On Screen & Multi Function)

## On Screen Displays (VCR)

### Function & Channel Displays



When a function button is pressed, e.g. PLAY, or to change channel, a 5-second display appears.

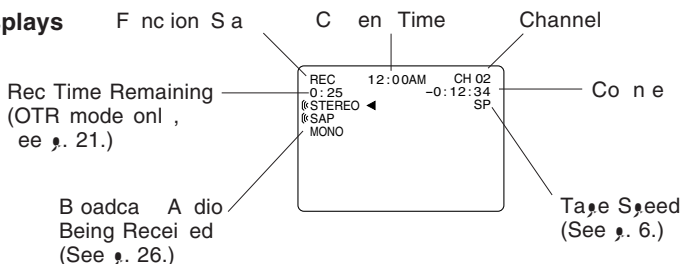
### Blank Tape/ No Video Signal Indications

When there is a blank section of a tape, or when the selected channel has no broadcast signal, the Weak Signal Display (p. 33) appears. If the TV screen will not hold blank.

### VCR Status & Clock Displays

To display or remove overlay at right,

→ press DISPLAY.



## Multi Function Display

### VCR mode Indicator

Lights when DECK is in VCR mode.

### Tape Indicator

Lights when a tape is inserted.

### Hi-Fi Indicator

Lights when Hi-Fi audio is monitored in Playback mode.

### ANGLE Indicator

Lights when a scene is detected at a different angle is detected. See p. 37. (DVD only).

### Clock/ Status/ Channel/ Speed Display

Displays the current time. Blinks the DECK area when a function button is pressed. Blinks the channel number, or L1 or L2 when a channel is selected. Blinks the recording speed when SPEED is pressed.

### DVD mode Indicator

Lights when DECK is in DVD mode.

### DISC Indicator

Lights when a disc is inserted.

### VCR REC Indicator

Lights during recording.

### AM/PM Indicator

### Timer Indicator

Lights when DECK is in Time Recording, or when One Touch Recording (OTR) is used. Flashes when Time Recording is in progress, but a tape has not been inserted in the DECK and when a power interruption occurs during Time Programming.

# Connections

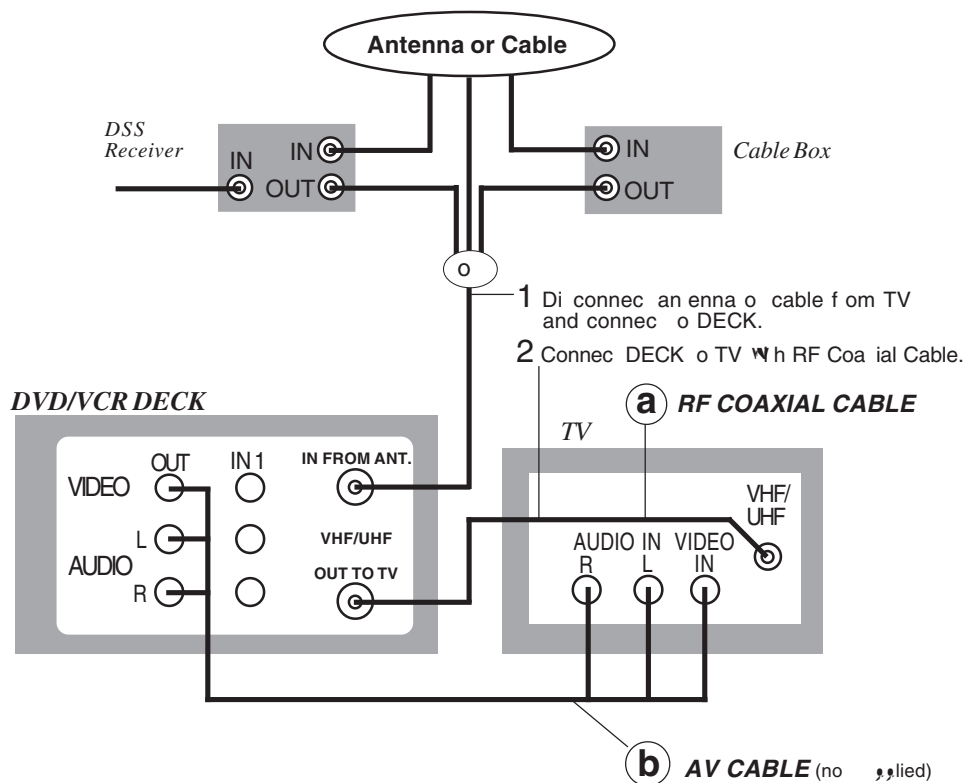
## Basic Connections

If your TV has **AUDIO and VIDEO IN** terminals, connect them to **DECK** for higher quality picture and sound.

You can enjoy the sound even if the TV is not connected to an external amplifier or DECK.

Connect DECK and TV with an RF Coaxial Cable (a) (shielded) or an AV Cable (b) (not shielded) as shown in the figure below.

■ DSS Receiver → DECK → TV    ■ DECK → TV    ■ Cable Box → DECK → TV



### WARNING

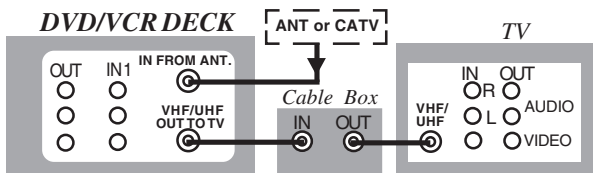
When using the RF coaxial cable, be sure to use the correct one. Otherwise, it may cause damage to the equipment.

### Note to CABLE system installer

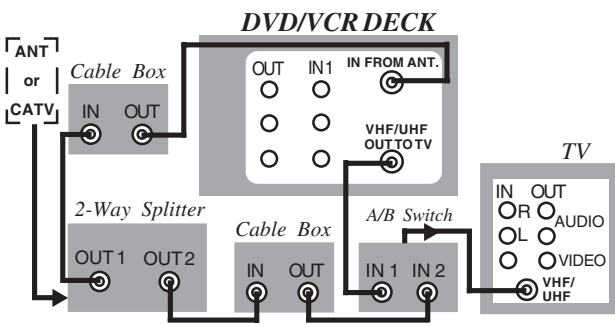
This reminds you to call the CABLE system installer to install the antenna or cable. The NEC in USA (and the Canadian Electrical Code in Canada) has a guideline for grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, a close to the point of cable entrance, as practical.

## Other Connections

### With a Cable Box (DECK → Cable Box → TV)



### Connect With Two Cable Boxes



#### Yo Can

ie Wan  
(incl ding  
c ambled)  
channel.

e Remo e  
Con ol o elec  
channel W ho  
ing M i-b and  
con ol fea e.

#### Yo Canno

eco d  
c ambled  
channel .

#### Yo Can

eco d and ie W  
bo h c ambled  
and n c ambled  
channel if  
addi onal  
e i, men i  
added.  
Thi connection  
e i e: W  
con e e bo e,  
an A/B W ch,  
and a 2-W  
gli e .

#### Yo Canno

ie Wa channel  
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one elec ed  
fo an , e of  
eco ding.  
  
do a Time  
eco ding of a  
channel nle  
o elec i on  
he Cable Bo .

## Connections For DVD Only (enjoying higher picture quality)

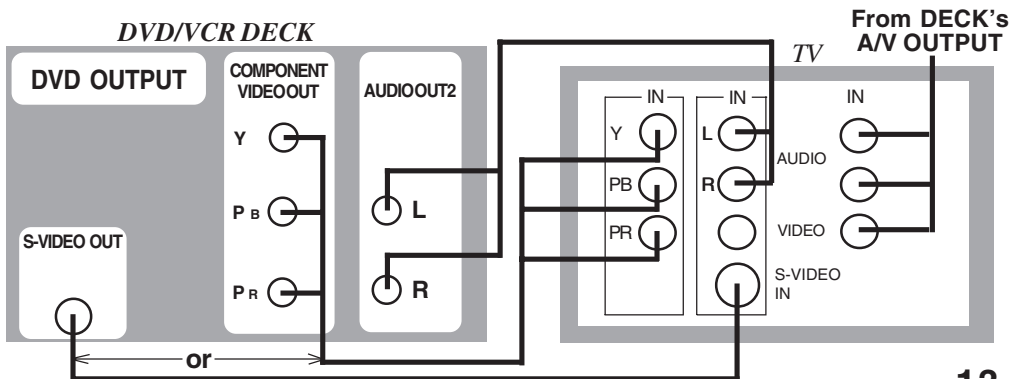
- ① Connec AUDIO OUT2 (L, R) o he AUDIO IN (L, R) of he TV. (a dio in, fo COMPONENT o S-VIDEO mode).
- ② If o TV ha COMPONENT VIDEO INPUT, connec o COMPONENT VIDEO OUT.  
If o TV doe no ha e COMPONENT VIDEO INPUT b ha S-VIDEO INPUT, connec o S-VIDEO OUT.
- ③ When in DVD mode, e o TV o ei he COMPONENT VIDEO IN o S-VIDEO IN.

### Notes

You can watch DVDs through the S-VIDEO or COMPONENT VIDEO, VHF/UHF OUT TO TV, and VIDEO OUT connections to your TV. The VCR and TUNER pictures are available only from the VIDEO OUT and VHF/UHF OUT TO TV connections to your TV.

PROG f ncion on he emoe a e no a ailable W hen ing S-VIDEO OUT and COMPONENT Video O . Plea e e TV o ei he RF INPUT o VIDEO INPUT, and hen , e PROG.

TV m ha e ca,abili o acce, and di, la a ,oge i e can ignal o e PROGRESSIVE mode. Con l o TV o, e a ing in c ion .



# Connections (continued)

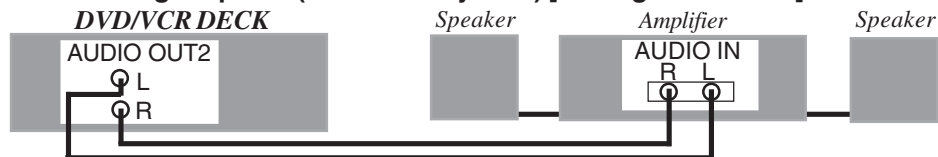
## Audio Connections



### Ready Checklist

- ☐ Turn down the volume, then insert the DECK, and wait a moment before proceeding with the connection.
- ☐ Do not block the ventilation hole of any of the equipment and arrange them so that air can circulate freely.
- ☐ Read the original instruction before connecting the equipment.
- ☐ Ensure that the color coding when connecting audio and video cable.

### ■ Connecting Amplifier (2ch stereo system) [Analog connection]



### Enjoying digital audio output from the digital audio output connector

#### Notes on audio output from the optical digital audio output connector

Disc	Sound recording format	Optical digital audio output from connector
DVD	Dolby Digital	Dolby Digital bit stream (1-5.1 ch) or PCM (48 kHz sampling/16 bit onl) <sup>*1</sup>
	Linear PCM (48/96 kHz 16/20/24bit)	Linear PCM (2ch) (48 kHz sampling/16 bit onl) <sup>*2</sup>
	DTS	Bit stream of PCM (48 kHz sampling/16 bit onl) <sup>*1</sup>
Video CD	MPEG 1	PCM (44.1 kHz sampling)
CD	Linear PCM	Linear PCM (44.1 kHz sampling)
MP3	MP3	Linear PCM (It depends on the MP3 file)

<sup>\*1</sup> The use of a digital output from the connector can be selected by the Setting for DVD Operation. (See p. 48.)

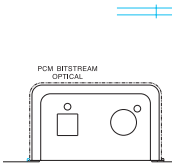
<sup>\*2</sup> So that having 96 kHz sampling is connected in 48 kHz sampling when it is output from the DECK's optical digital audio connector.

#### For your reference:

Dolby Digital is a digital audio compression technology developed by the Dolby Laboratories Licensing Corporation. Supporting 5.1-channel audio and, as well as stereo (2-channel) audio, this technology enables a large number of digital audio to be efficiently encoded on a disc. Linear PCM is a signal encoding format used in CD. While CD is encoded in 44.1 kHz / 16 bit, DVD is encoded in 48 kHz / 16 bit or 96 kHz / 24 bit. If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movie that provides full 5.1 channel Dolby Digital audio and, as well as from the full Dolby Surround matrix. For information on Panasonic Technics Dolby Pro Logic Surround Surround Decoder, please contact your local dealer.

Manufactured under license from Digital Theatre Systems, Inc. US Pat. No. 5,451,942, 5,956,674, 5,974,380, 5,978,762 and other United States and foreign patents. DTS is a registered trademark of Digital Theatre Systems, Inc. Copyright 1996, 2000 Digital Theatre Systems, Inc. All rights reserved.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.





# Initial Setup for Basic Connections (Ready to Play)

## Before doing Initial Setup

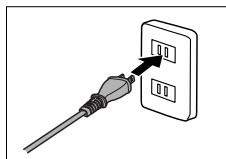
- 1 Turn TV on.
- 2 See connection ① RF Coaxial Cable Connection and ② AV Cable Connection on p. 12.  
<RF Coaxial Cable Connection>  
Set TV to channel 3.  
<AV Cable Connection>  
Set TV to VIDEO.
- 3 [DECK → TV]  
Go on Doing Initial Setup (Ready to Play). (See below) [Cable Box → DECK → TV], [DSS → DECK → TV]  
Turn on Cable Box and select Public Broadcasting Station (PBS) channel in one time.  
If use a DSS Receiver, it must be turned off.

## Doing Initial Setup (Ready to Play)

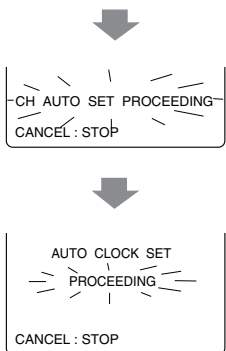
- 1 Press VCR on remote for VCR mode.
- 2 Plug DECK Power Cord into AC wall outlet. DECK comes on and auto channel and clock set starts.

If shown below, do not appear, check DECK - TV connection and, if TV is turned on channel 3, change it to channel 4.

To change VCR's channel, please refer to VCR's Owner's Manual on p. 19.



Plugging the AC Power Plug into an AC outlet



### Notes

Function button is required during Initial Setup.  
To remove a cable during Auto Setup, press EJECT on the remote or STOP/EJECT on the DECK.  
In this case, the setting must be made manually. (See p. 18.)  
Depending on condition, Auto Clock Set may take longer than 30 minutes. If so, press STOP once or twice and go for more setting manually. (See p. 18.)

*Continued on next page...*

**\*Important:** If a remote control button does not work when pressed, check the VCR button on the remote and the button again.

# Initial Setup (Connection)

## 3 Settings are made automatically. When setup is done, this screen appears.

6/ 8/2003 SUN 2:20PM  
DST:ON  
SETTING : CH 10  
AUTO CLOCK SET  
COMPLETED

If "AUTO CLOCK SET IS INCOMPLETE"  
appears, manually set clock. See below.

AUTO CLOCK SET IS  
INCOMPLETE  
PLEASE SET CLOCK BY  
PRESSING ACTION KEY

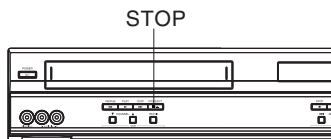
## Manual Clock Set

If Auto Clock Set is incomplete.

## 1 Press ACTION\* on remote to display CLOCK screen.

SET CLOCK  
11--/--- DST:ON  
-----  
SELECT MONTH  
SELECT :▲▼  
SET :SET  
EXIT :ACTION

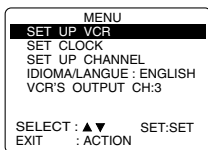
## 2 Press ▲▼ to select the month and SET to set. In the same manner, select and set the date, year, time, and DST (Daylight Saving Time).



## 3 Press ACTION to start clock and exit.

# Reset Language, Channels, Clock,

## 1



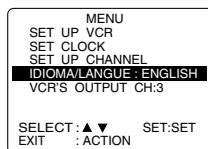
**Press ACTION\***  
o di 9 la MENU.

PROGRAM f nc ion a e no a ailable  
When ing COMPONENT Video O ,  
and S-VIDEO OUT. Plea e e TV o  
ei he RF INPUT o VIDEO INPUT, and  
hen 9 e PROGRAM.

## 2

### Language

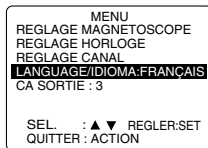
- 1) Press ▲▼ o elec  
lang age i em.



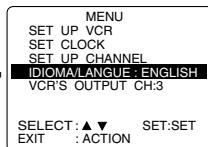
- 2) Press SET e,ea edl o  
change lang age i em a  
ho h belo W.



Fo S,ani h ↓



Fo F ench ↓

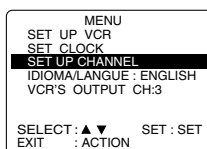


Fo Engli h

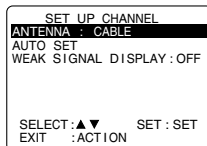
- 3) Press ACTION o e i.

### Channels

- 1) Press ▲▼ o elec  
SET UP CHANNEL,  
and press SET.

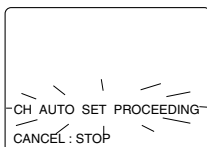


- 2) Press ▲▼ o elec  
ANTENNA, hen  
press SET o e o  
an enna em  
(TV o CABLE.)



- 3) Press ▲▼ o elec  
AUTO SET, hen  
press SET.

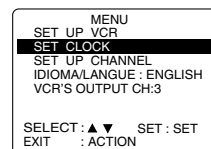
If o e a Cable Bo ,  
e i o he PBS channel  
in o ime one.



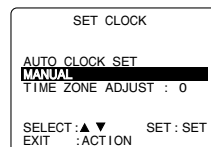
Af e Channel A o Se  
i fini hed, A o Clock  
Se Wll be 9 e fo med.

### Clock

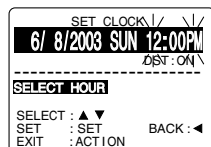
- 1) Press ▲▼ o elec  
SET CLOCK, and  
press SET.



- 2) Press ▲▼ o elec  
MANUAL, and press SET.  
(Fo A o Clock Se, elec  
AUTO CLOCK SET.)



( TIME ZONE ADJUST  
a,ea onl When a o  
clock i e.)



- 3) Press ▲▼ and ◀ o  
elec, hen e he da e,  
ime, and DST (Da ligh  
Sa ing Time).
- 4) Press ACTION o a  
Clock and e i hi  
mode.

# VCR's Output Channel

**\*Important:** If a memo is recorded on the VCR, when the VCR is on, the memo will be recorded again.

## Time Zone Adjust

(Only when Auto Clock is on.)

- 1) Press **▲▼** to select **SET CLOCK**, and press **SET**.

```

MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOM/LANGUAGE: ENGLISH
VCR'S OUTPUT CH:3

SELECT: ▲▼      SET: SET
EXIT: ACTION
    
```

- 2) Press **▲▼** to select **TIME ZONE ADJUST**,

```

SET CLOCK

AUTO CLOCK SET
MANUAL
TIME ZONE ADJUST: 0

SELECT: ▲▼      SET: SET
EXIT: ACTION
    
```

and press **SET** to add or delete ( ) a second.

- 3) Press **ACTION** to select **TIME ZONE ADJUST** on 0 if clock is manual.

## VCR's Output Channel

- 1) Press **▲▼** to select **VCR'S OUTPUT CH.**, and press **SET**.

```

MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOM/LANGUAGE: ENGLISH
VCR'S OUTPUT CH:3

SELECT: ▲▼      SET: SET
EXIT: ACTION
    
```

- 2) Press **SET**.

```

IF YOU PRESS ACTION
KEY, VCR'S OUTPUT CH
SWITCHES TO CH 4.
    
```

- 3) Press **ACTION**.

```

PLEASE TUNE YOUR TV TO
CH 4.
    
```

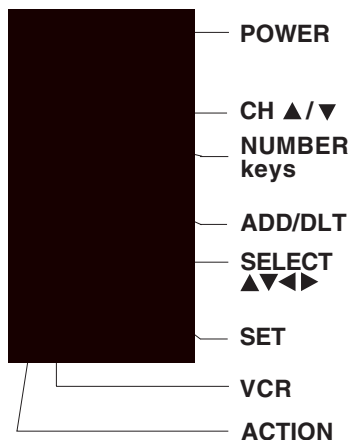
↓ After 3 seconds

```

MENU
SET UP VCR
SET CLOCK
SET UP CHANNEL
IDIOM/LANGUAGE: ENGLISH
VCR'S OUTPUT CH:4

SELECT: ▲▼      SET: SET
EXIT: ACTION
    
```

To Make Connection, repeat steps 1) ~ 3).



Basic Operation

## Add or Delete a Channel

To add channel:

Select channel with **NUMBER** keys and press **ADD/DLT**.

CHANNEL 08 ADDED

To delete channel:

Select channel with **CH ▲/▼** **NUMBER** keys and press **ADD/DLT**.

CHANNEL 08 DELETED

## DST (Daylight Saving Time)

DECK auto adjust clock for DST. (9. 17.)

**Spring (First Sunday in April)**

DST:ON → Set clock ahead one hour.

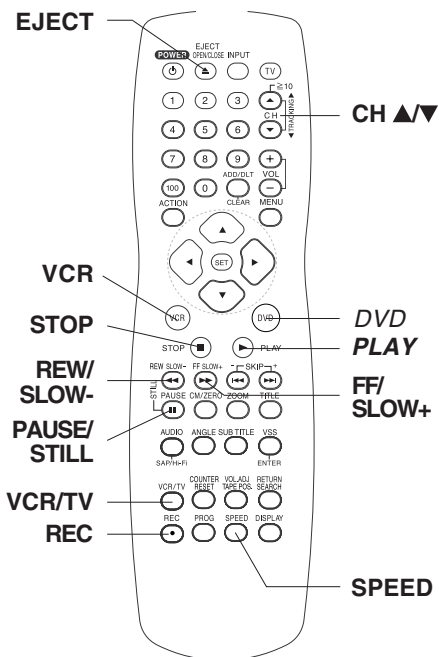
**Autumn (Last Sunday in October)**

DST:ON → Turn clock back one hour.

If you are doing no other daylight saving time, select DST:OFF.

Keep the time change in mind when programming DECK for time recording.

Insert a tape .



**\*Important:** If a video is recorded on a VCR, it will be recorded on the VCR and not on the video head.

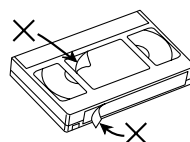
## Record on a Tape

- 1 Insert a tape with a record tab (p. 6).**  
DECK will come on. If A or VCR/TV (p. 32) is set to OFF, the VCR/TV will come on in VCR mode.
- 2 Press CH ▲▼, or NUMBER keys**  
to select the channel.  
For LINE in, see p. 35.  
If channel is 100, the 100 key when the remaining 2 digits are 00.
- 3 Press SPEED**  
to select the record speed (p. 6).  
SP = Standard Play      LP = Long Play  
SLP = Super Long Play  
Speed appears on screen and on Multi Function Display.
- 4 Press REC**  
to start recording.  
(The VCR REC indicator lights on Multi Function Display),  
To edit or advance scene, press PAUSE/STILL once, and again to move recording.  
You cannot rewind the channel during recording.
- 5 Press STOP**  
to stop recording.

This video code, recorded with HQ (High Quality) film, is compatible with the VHS system. Only use VHS tapes. VHS tapes are recommended for use in 2, 4, 6, and 8 hour machines.

### Note

Remove loose or peeling labels from tapes to prevent tape jam.



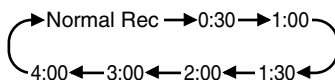
Basic Operation

- **One Touch Recording** (recording in progress),  
→ Press REC to extend the recording length  
(30 min. ~ 4 hours).  
DECK will stop after the selected recording length.

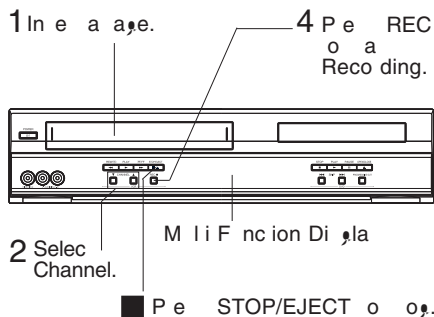
- **Record one station, watch another,**  
→ press VCR/TV on the remote  
(change to TV mode),  
→ select channel on TV (recording continues).

- **Select Channels at DECK** (In STOP or REC. PAUSE mode),  
→ press VCR/TV on the remote  
(change to TV mode),  
→ select channel on DECK.

- **Play a disc while recording a tape.**  
→ insert a disc during recording,  
→ press DVD, and then press PLAY.



## Record using DECK buttons



### Notes

- It is not possible to record from DVD/ Video CD/ CD to VHS tape using DECK.
- Watching one channel and recording another is not possible when using Cable Box or DSS Receiver.
- After 5 minutes in Pause mode, DECK will stop recording and video head will stop.

POWER

SELECT



SET

STOP

REW/  
SLOW-

FF/  
SLOW+

PAUSE/  
STILL



TITLE

VSS

RETURN

Dog

of the world



**\*Important:** If a movie contains Dolby Digital or DTS, when you play the DVD, the Dolby Digital or DTS sound will be reproduced.

## ■ Forward/Reverse Scene Search

Press **FF/SLOW+** or **REW/SLOW-** during play.

Press **PLAY** to resume.

Searching for the scene each during play. The search will be performed on the Video CD menu. The search will be performed on the Video CD menu. The search will be performed on the Video CD menu.

## ■ Forward/Reverse Chapter/Track Skip

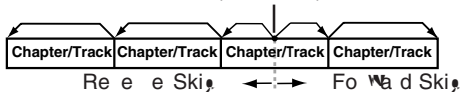
Press **SKIP** or **SKIP** during play.

Each time, the chapter (DVD) or track (Video CD/CD).

Pressing **SKIP** once will move to the next chapter/track. Each additional time, the chapter/track will be skipped.

Pressing **SKIP** or **SKIP** during play will move to the next chapter/track.

Center the play position.



## ■ Still Picture or Pause

Press **PAUSE/STILL** during play.

Press **PLAY** to resume.

DVD/Video CD: DECK will enter still picture mode. CD: DECK will enter pause mode.

## ■ Frame by Frame Picture (DVD/Video CD)

Press **PAUSE/STILL** in still mode.

Press **PLAY** to resume.

Each time, advance picture one frame. Hold button down for continuous frame advance. When the picture is advanced by FRAME or FIELD, the selected area is shown. (See p. 49)

## ■ Slow Motion Picture (DVD/Video CD)

Press **FF/SLOW+** or **REW/SLOW-** in still mode.

Press **PLAY** to resume.

Slow motion search, low speed, increase each additional time of the button, 0.5 times.

Reverse low motion is not available for Video CD.

## Auto-Power Off Function

Power is turned off after the DECK has been in Sleep mode (DVD) for about 5 minutes.

When the power is turned on, the screen will be blank. When the power is turned on, the screen will be blank. When the power is turned on, the screen will be blank.

## V.S.S. (Virtual Surround Sound)

Enjoy a surround-like effect if you are listening without speakers. The effect is enhanced and surround sound comes from all speakers on either side of the channel. The signal is coded on it.

Press **VSS** in DVD mode.

The Surround effect can be changed by pressing **VSS** repeatedly. The following figure shows the VSS settings.



### Note

Surround effect is available in DVD mode only.

Turn off the surround effect on the other side.

V.S.S. will not work, or will have the effect, when the movie is in.

Turn V.S.S. off if the movie is in.

Sound will only come from the front speakers if V.S.S. is on.

## Resume Function

DECK memory of the position where the STOP is pressed (STOP button is pressed on screen).

Press **PLAY** to resume from the position.

Pressing **STOP** again or opening the cancel RESUME, however, RESUME is not canceled when the movie is turned off and on.

RESUME will only work if the movie is which played the time it is played during play.

## Enjoy Video CDs featuring playback control without using menus (Video CDs only)

1. Do steps 1-4 (see page).

When the menu appears, press **STOP**.

2. Press **NUMBER** keys to select the track (play begins).

Check the correct track number.

Press 1 to start at the beginning of the track.

To Resume Menu use,

Press **STOP** and press **PLAY**, then the menu will be displayed.

Now go to step 5 (see page).

### Notes

Please read the disc jacket for operation information.

If a single disc is placed in the drive, THIS TYPE OF DISC CANNOT BE PLAYED. PLEASE INSERT A DIFFERENT DISC if displayed.

Remove the disc and the DECK POWER off when not in use.

Disc connection is not possible when the disc is not inserted.

Press **STOP** to clear the menu when finished watching.

# Timer Recording



## Ready Checklist

- ☐ All connection are made (p. 12 ~ 15).
- ☐ TV and DECK are plugged in.
- ☐ Clock is correct. (p. 18)
- ☐ Tape has been ab. (p. 6)
- ☐ Remote is in VCR mode. (P or VCR.)
- ☐ Sufficient tape remaining for recording time.

## 1 Press PROG\*

to display Program.

## 2

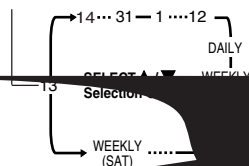
DATE	/	START	STOP	CH
13	SUN	--	--	--
TODAY				
SLP				
SELECT START DATE				
SELECT: ▲▼				
SET : SET				
END : PROG				

- 1) To set record DATE, press ▲▼ to select:  
 1~31= one time, o  
 DAILY= MON~ FRI, o  
 WEEKLY= same time  
 each week and  
 press SET.

See selection on the left.

## Example

Today



- 2) To set remaining press ▲▼

**\*Important:** If a timer recording is in progress when the power is cut off, the VCR will not record the program again.

## Review, Replace or Clear Program Contents:

(Recording in progress)

**1** Press **PROG**  
to display Program List.

**2**

DT	START	STOP	CH	SPD
7	9:00A	12:00A	08	SP
8	10:00P	12:00P	02	SP
10	8:00P	9:00P	10	SP
SU	9:00P	10:00P	L1	LP

CANCEL : ADD/HLT  
SELECT 1-8 : ▲▼  
ENTER : SET  
EXIT : PROG

Press **▲▼**  
to select number and  
press **SET**  
to display.

**To cancel a Timer  
Recording in progress...**

Hold down **STOP** in VCR mode for a few seconds to cancel the Timer Recording.

(The **TIMER** Indicator goes on Monday Function Display.)

After a few days of weekly recording, it will be programmed.

**3** To Replace program...

DATE /	START	STOP	CH
7 SUN	9:00A	12:00A	08
TODAY \ SP			

SELECT START DATE

SELECT : ▲▼  
SET : SET  
END : PROG

BACK : ◀

Replace Set 2 (9:24)  
to new program.

or

To Clear program...

DT	START	STOP	CH	SPD
8	10:00P	12:00P	02	SP
10	8:00P	9:00P	10	SP
SU	9:00P	10:00P	L1	LP

CANCEL : ADD/HLT  
SELECT 1-8 : ▲▼  
ENTER : SET  
EXIT : PROG

Press **ADD/HLT**.

**4** Press **PROG**  
to end the programming.

### Notes

- If you are using a Cable Box, the VCR's channel for Timer Recording must be set to the Cable Box input channel and Cable Box must be manually set to the desired channel. Cable Box power must be left on.

2 minutes before Timer Recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and Timer Indicator flashes.

Be sure a cassette with record tab is loaded and DECK is in Stop mode.

If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If **TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION** appears on-screen, please re-enter the timer program.

If the timer for Time Recording comes during recording and plays back, Time Recording will not be programmed.

### Important notes when using DSS Receiver

When recording program via DSS Receiver, DSS Receiver must be left on.

When recording program via an antenna cable, DSS Receiver must be turned off.

**MONO broadcast**

No mal mona al o b oadca .

SAP  
MONO



and  
Technolog Licensing

Send e-mail to : [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com)

**\*Important:** If a memo is recorded on the VCR, the VCR will not record on the same track again.

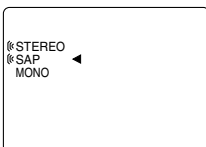
## Audio Mode for Recording

### 1 Press AUDIO (SAP/Hi-Fi)

to display audio mode.

(Display appears after 5 seconds.)

### 2



**Press AUDIO (SAP/Hi-Fi)** to display

audio mode.

Refer to Receivable Broadcast Table on p. 26.

A small arrow indicates selection.

### 3

**Make a recording.**

See p. 21.

## Audio Mode for Playback

### 1

**Start playback.**

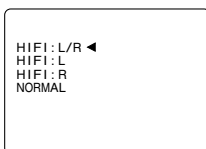
See p. 20.

### 2

**Press AUDIO (SAP/Hi-Fi)**

to display audio mode.

### 3



**Press AUDIO (SAP/Hi-Fi)** to display

audio mode.

Select HIFI (L/R) or HIFI (L) or HIFI (R) or listen to the recording in stereo mode.

Select NORMAL for mono playback.

Display appears after 5 seconds.

A small arrow indicates selection.

### Notes

Only audio recorded in Hi-Fi will playback with stereo sound. Stereo audio will playback in mono mode.

To listen to Hi-Fi stereo playback, the DECK AUDIO (L/R) jack must be connected to a stereo TV or an external stereo amplifier and speaker. (See p. 12, 14.)

If making individual playback, Hi-Fi audio must be stereo or mono audio.

Hi-Fi and mono audio playback will be the same.

# Multi-Brand Control Feature

## Multi-Brand Control Setup

The Remote Control can be set to control some TV function.

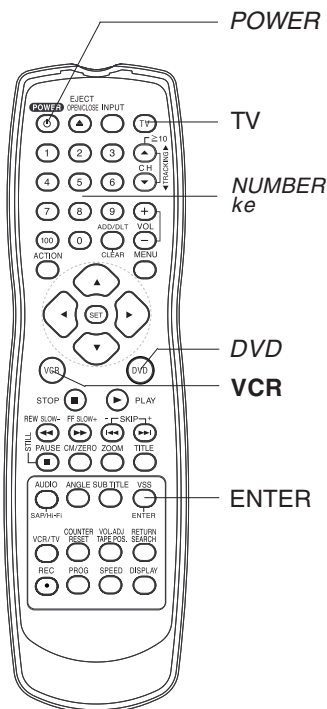
**1 Find your TV Brand Code Number on the following page.**

**2 Set up for TV control,**  
 → hold down TV button,  
 → enter code with NUMBER keys.  
 If code number is 100 or greater,  
 → e.g., 1-0-2 for 102.

**3 Confirm code entry,**  
 → press POWER on selected mode.  
 See table below for controllable function in each mode.

### Notes

Repeat the above steps to replace the remote control.  
 Remote will not control the TV made by the manufacturer listed. If the code number is 0, the original cannot be controlled. There are NO additional codes for the original. If the code is not listed, then the remote is not compatible with the code.



## Using Multi-Brand Control

After the remote is set, you can select VCR, DVD, or TV for the desired function.

**Press VCR, DVD, or TV** on the remote.  
 (Table below shows available remote buttons for each mode.)

Mode \ Uni	DVD/VCR	TV
DVD/VCR	All	VOL +/-
TV	<b>EJECT/OPEN/CLOSE*</b> , <b>DISPLAY, PLAY, STOP</b> , <b>FF/SLOW+, REW/SLOW-</b> , <b>VCR/TV, PAUSE/STILL, SKIP</b> , <b>AUDIO, CM/ZERO</b> , <b>TAPE POSITION</b> , <b>COUNTER RESET, SPEED</b> , <b>REC</b>	<b>POWER, INPUT</b> , <b>NUMBER keys</b> , <b>ENTER</b> , <b>CH ▲/▼, VOL +/-</b>

\* **Bold:** VCR Function  
*Italic:* DVD Function

**Bold Italic:** VCR and DVD Functions  
 Normal: TV

### Notes

Not all functions listed may be controllable.

In TV mode, it may be necessary to press ENTER after using NUMBER keys for channel selection.

## TV Brand Code Numbers

Pana onic ..... 01, 02	S l ania ..... 05	JVC ..... 11
Q a a ..... 01, 02	Sha , ..... 06, 07	Hi achi ..... 12
RCA ..... 03	Son ..... 08	Mi bi hi ..... 07, 13
GE ..... 03	To hiba ..... 09	Sam ng ..... 14
Zeni h ..... 04	San o ..... 10	Gold S a ..... 15, 16, 17
Magna o ..... 05	Fi he ..... 10	

## Important Notes

Some man fac e e e e al code fo one b and. If he fi code en e ed fail , he ne one li ed.

Some TV b and e i e o o n on he ,o ne man all .



# Tape Operation

## Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for time recording. The marks are used to access the recording.

### Index Search

1

INDEX SEARCH  
ENTER INDEX NUMBER :1  
USING 1-9 KEYS  
FORWARD SEARCH :FF  
REVERSE SEARCH :REW  
NEXT :SEARCH  
EXIT :STOP

**Press SEARCH\***  
to display SEARCH  
in Stop/Play  
mode, and then  
**press NUMBER**  
**keys**

to select recording  
number.

To calculate  
number, see below.

**Press FF/SLOW+**  
or **REW/SLOW-** on  
the remote or a  
each.

2

INDEX SEARCH  
  
FORWARD SEARCH : FF  
REVERSE SEARCH : REW

Play begins a  
each end.  
To each forward  
or back 1 index,  
**press FF/SLOW+** or  
**REW/SLOW-** on the  
remote while  
screen left  
displayed (10 sec.).

To cancel, **press**  
**PLAY** or **STOP**.

### Program End Search

Locate end point of recording for continuity.

1

**Press SEARCH** to  
display SEARCH in Stop/Play  
mode.

2

PROGRAM END SEARCH  
  
SEARCH START : FF  
  
EXIT :SEARCH

**Press FF/SLOW+**  
on the remote or a **PROGRAM**  
**END SEARCH**.

To cancel, **press**  
**PLAY** or **STOP**.

Example of Program End Search.

Fig. 1

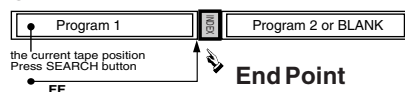


Fig. 2

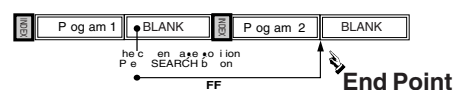
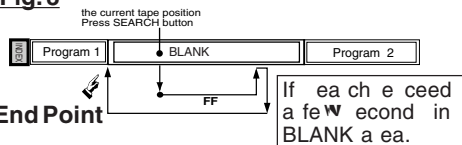


Fig. 3



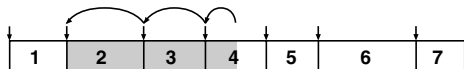
**Upon locating end point,**

- each continue 7 sec. after end point,
- after 10 sec. before end point,
- after 10 sec. end point and on.

### To Calculate Index Number

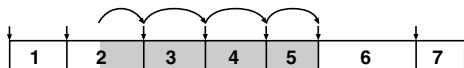
#### Example 1:

To go to record 2 from record 4, enter 3 and **press** REW.



#### Example 2:

To go to record 6 from record 2, enter 4 and **press** FF.



NOTE: ↓ indicates a point of each recording.

#### Note

If Index Search is used, close the  
index mark, has index mark may be  
continued in the each.

#### Note

If Program End Search is used, close the  
index mark, has index mark may be  
continued in the each.

**\*Important:** If a movie is on when the VCR is on, the VCR will not stop when the movie ends and will continue to play.

## Auto Operation Functions

### Auto Play

In the case of a movie, when the power comes on, the VCR will automatically start playing the movie (see p. 6).

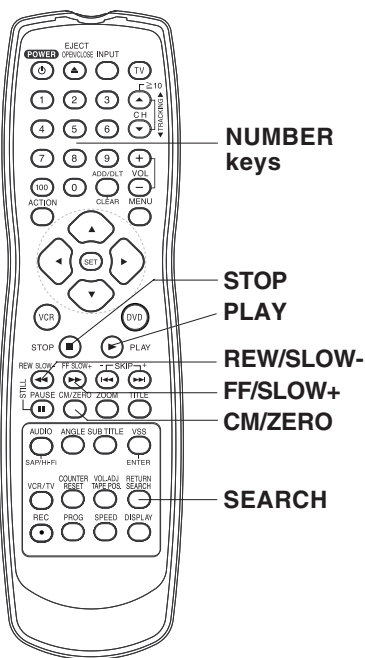
### Auto Rewind

Play  
Fast Forward } → Tape end → Rewind

### Play Auto Eject

(Release the Play button)

Play → Tape end → Rewind  
→ Tape eject if the movie is over.

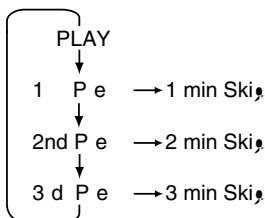


## Commercial Skip

VCR fast forward (kip) over 1-3 minutes of recorded tape.

### 1 Press CM/ZERO in Play mode.

The skip time can be changed by pressing CM/ZERO repeatedly as shown below.



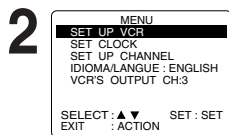
No indication appears on-screen.

# Tape Operation (continued)

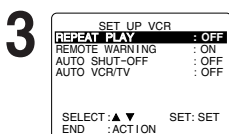
## Repeat Play

See the following back and forth operation.

**1 Press ACTION\***  
to display MENU.



**Press ▲▼**  
to select SET UP VCR, and  
**press SET.**



**Press ▲▼**  
to select REPEAT PLAY,  
and **press SET**  
to be ON or OFF.

Play area is ended if recorded position  
is 30 sec. in the end.

**4 Press ACTION** Once  
to be normal again.

### Note

For the area in DVD mode, see page 42.

## Zero Search

To check the non-specified location.

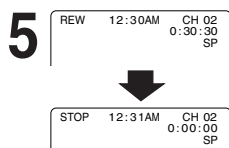
**1 Press DISPLAY** during play  
to display Counter.



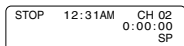
**Press COUNTER RESET**  
to display position of 0:00:00.

**3** Continue recording, play back etc.

**4 Press STOP.**



**Press CM/ZERO** in Stop mode  
to start Zero Search.

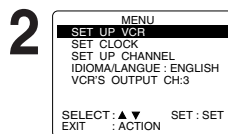


DECK will go into FF or REW mode and  
after the position of the Counter is 0:00:00.

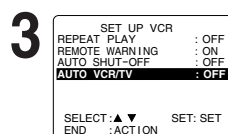
## VCR/TV Selector Feature

The VCR/TV selection can be done  
automatically.

**1 Press ACTION**  
to display MENU.



**Press ▲▼**  
to select  
**SET UP**  
**VCR,** and  
**press SET.**



**Press ▲▼**  
to select  
**AUTO VCR/**  
**TV,** and  
**press SET**  
to be ON  
or OFF.

OFF (Manual): You select VCR or  
TV mode using the  
VCR/TV button on the  
remote.

ON (Auto): VCR mode is  
automatically selected when  
VCR is turned on, or in  
Play mode.

**4 Press ACTION**  
to be normal again.

### Note

For more on VCR/TV selection, see  
Recording a tape, which also has  
and Select channel a DECK  
operation (see p. 21).

POWER SELECT  
PHOTO/VIDEO INPUT

1 2 3  
4 5 6  
7 8 9  
10 0

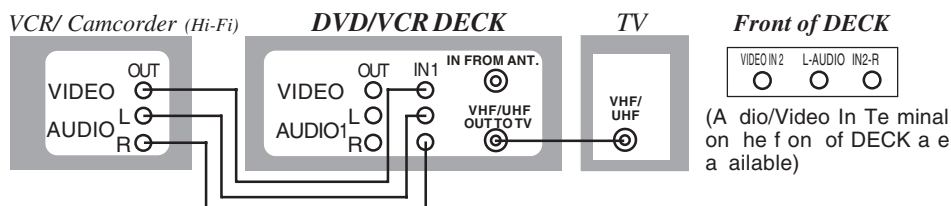
5 6 7 8 9 10

BRUNNEN



# Copying Your Tapes (Dubbing)

## Connection



- ① Connec VIDEO OUT e minal on Pla ing VCR o VIDEO IN e minal on DECK. To moni o he d bbing, al o connec TV a ho wh.
- ② Connec L and R AUDIO OUT e minal on Pla ing VCR o L and R AUDIO IN e minal on DECK.  
In place of Pla ing VCR, o can e o he e i, men, ch a a Camco de. Siml connec he ni' A dio/Video o , o DECK.

### Playing (Source) VCR

### Recording (Editing) DECK

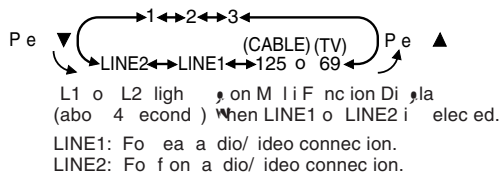
- 1 In e a , e-eco ded a , e. In e a blank a , e wh eco d ab.
- 2 \_\_\_\_\_ Press **INPUT** o e DECK In , mode o LINE fo Video In , .  
(See Selec ing he In , Mode belo w.)
- 3 Press **PLAY**, hen **PAUSE/STILL** immedia el o en e PLAY/PAUSE mode. Press **REC**, hen **PAUSE/STILL** immedia el o en e REC/PAUSE mode.  
The operation of steps 4 and 5 must be done on the \_\_\_\_\_ playing and recording VCRs at the same time.
- 4 Press **PLAY** o a d bbing. Press **PAUSE/STILL** o a d bbing. Pla ing VCR a , la back. DECK a eco ding.
- 5 Press **STOP** o o , d bbing. Press **STOP** o o , d bbing.

### ■ To Monitor Dubbing on TV

- 1 T n TV on and ne o he Reco ding VCR channel (CH 3 o CH 4).
- 2 If A o VCR/TV ( ee , 32) i e o OFF, , e VCR/TV on he emoe o be VCR mode.

### ■ Selecting the Input Mode

- Me hod 1: Press **INPUT** e , ea edl .  
Channel N mbe ↔ LINE1 ↔ LINE2
- Me hod 2: Press **CH ▲/▼**.  
Di , la whll change a belo w.



### Note

D bbing a , e , o ec ed wh Co , G a d whll e l in , oo ali eco ding .

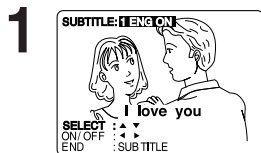
**Caution:** • Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.

- Please note that some tapes cannot be dubbed on DECK. Also, it is not possible to dub DVD/ Video CD/ CD to VHS tapes using DECK.

# Disc Operation

## Subtitle Language (DVD only)

You can select a different subtitle language (if offered) than the one on the Setting for DVD Operation.  
(See p. 47.)



**Press SUB TITLE\***  
in Play mode of the subtitle language selection screen.  
The subtitle language will be displayed in 5 seconds.

When no subtitle is offered, it will be displayed in the default subtitle language.



**Press ▲▼**  
to select a language.  
**Press ◀▶**  
to select ON or OFF.

Subtitle language being displayed back (see chapter 4, page 18).

### Notes

If a subtitle is not offered for the subtitle language, no change in subtitle language selection is offered on the disc.  
When the disc is played, the subtitle language is initially the language of the disc. If the subtitle language is not offered on the disc, the subtitle language will be the default language.

## Audio Soundtrack Language (DVD only)

You can change the audio track language, selected on the Setting for DVD Operation, to a different language if available. (See p. 47.)

(This operation is only available on discs which include an audio track language selection.)



**Press AUDIO**  
in Play mode of the audio language selection screen.  
The audio language will be displayed in 5 seconds.

An audio effect will be sampled for the selected language.



**Press ▲▼**  
to select the desired language.

An audio track language being displayed back (see chapter 4, page 18).



### Ready Checklist

☐ Please read Basic DVD Operation on p. 22.

### [Subtitle language] [Audio sound track language]

ENG	English
FRA	French
DEU	German
ITA	Italian
ESP	Spanish
NLD	Dutch
SVE	Swedish
NOR	Norwegian
DAN	Danish
POR	Portuguese
RUS	Russian
JPN	Japanese
CHI	Chinese
KOR	Korean
MAL	Malay
VIE	Vietnamese
THA	Thai
*	Other

Change the No. by pressing ▲▼, and press SET.

[Audio attribute 1 type, sampling frequency, bit No. of the disc (see p. 48.)]

LPCM	96 kHz or 48 kHz	16bit 20bit 24bit	Linear PCM disc
Dolby Digital	1ch - 5.1ch		Dolby Digital disc
DTS	1ch - 5.1ch		DTS disc

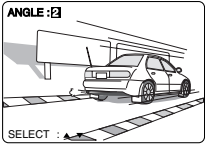
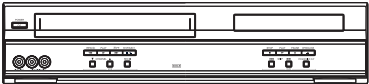
### Notes

If a subtitle is not offered for the audio language, no change in subtitle language selection is offered on the disc.

When the disc is played, the audio language is initially the language of the disc. If the audio language is not offered on the disc, the audio language will be the default language.



When

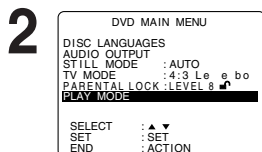




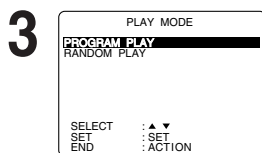
## Program Play (Video CD/CD only)

You can program specific tracks and order of play.

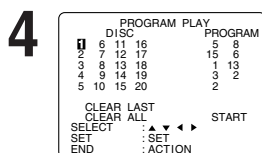
**1 Press ACTION**  
to display DVD MAIN MENU.



**Press ▲▼**  
to select  
PLAY MODE, and  
**press SET**  
to display.

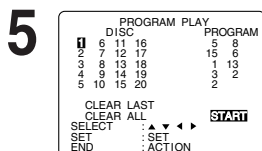


**Press ▲▼**  
to select  
PROGRAM PLAY,  
and  
**press SET** to display.



**Press ▲▼◀▶**  
to select a track  
number (Track  
number on disc and  
displayed), and  
**press SET**.

Repeat, 4 to select and the track.  
The selected track is added on the high side.



**Press ▲▼◀▶**  
to select START, and  
**press SET** to add a track  
of program in the  
sequence selected.

To cancel, **press STOP**  
display, then **press CLEAR**.

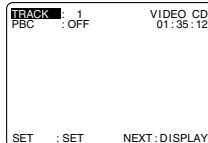
## ✓ Ready Checklist

- ☐ DECK in DVD mode, the DVD.
- ☐ Video CD or CD in inserted.

## Program Repeat Play (Video CD/CD only)

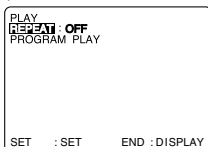
**1** Do operation, 1 hour 5  
a left on the page.

**2 Press DISPLAY** to display Disc  
Information screen.  
(Disc Information Screen)

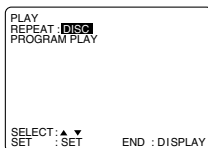


**3 Press DISPLAY** to display  
DECK Information screen.

**4 Press SET** to enter Select mode.  
C or mode or OFF.  
(DECK Information Screen)



**5 Press ▲▼** to select DISC.  
(DECK Information Screen)



**6 Press SET** to enter mode.  
C or mode or REPEAT.  
To cancel, select REPEAT:  
OFF in step 5, then **press SET**.

## Notes

Up to 15 tracks can be programmed.

◀ or ▶ (depending on disc) indicates additional  
PROGRAM PLAY screen.

Press ▲▼◀▶ for next or previous screen.

### • To clear the last program one by one

Press ▲▼◀▶ to mode or CLEAR LAST and  
press SET. (Pressing CLEAR on remote control  
also clears the program.)

### • To clear all programs

Press ▲▼◀▶ to mode or CLEAR ALL and press  
SET. (Programs are all cleared when the power  
is turned off or the disc is removed.)

# Disc Operation (continued)

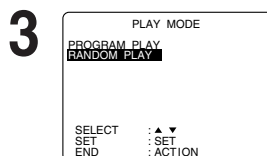
## Random Play (Video CD/CD only)

Track a e, l a e d i n a a n d o m o d e .

**1 Press ACTION\***  
o d i, l a DVD MAIN MENU.



**Press ▲▼**  
o e l e c PLAY MODE,  
and  
**press SET**  
o d i, l a .



**Press ▲▼**  
o e l e c  
RANDOM PLAY, and  
**press SET**  
o b e g i n a n d o m, l a .

To cancel, **press STOP**  
d i n g, l a, h e n **press**  
**CLEAR.**

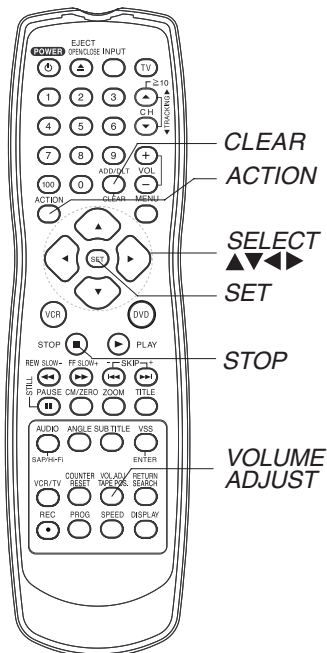


## Ready Checklist

☐ DECK i n DVD mode, e DVD.

### \*Important:

If a e m o e c o n o l b o n d o e n o  
b o k w h e n, e e d, e h e  
DVD b o n o n h e e m o e a n d  
h e b o n a g a i n.



## Setting the VOLUME ADJUST

Some DVD a e e c o d e d i n l o w e a e a g e o l m e l e e l.  
F o h e e DVD, h i DECK c a n b e e o h a h e  
a e a g e o l m e i i n c e a e d.

**Press VOL.ADJ** e, e a e d l o c h a n g e ON ↔ OFF.

ON o OFF l i g h, o n M l i F n c i o n D i, l a ( a b o 3 e c o n d ) w h e n  
e VOL.ADJ.

	VOLUME ADJUST "OFF"	VOLUME ADJUST "ON"
<b>Some DVD</b> [Volume level is low]	Vol m e i h e o i g i n a l l e e l.	Vol m e l e e l i i n c e a e d w h e n, l a e d b a c k.

ON i e ..... W h e n a DVD i, l a e d b a c k, h e a e a g e o l m e i i n c e a e d.

OFF i e .... T h e o l m e l e e l e c o d e d o n h e d i c i, l a e d b a c k j a i i .

## Notes

W h e n a d i o e i, m e n i c o n n e c t e d, e i n g h e S o n d O, l e e l o OFF i e c o m m e n d e d.  
I f h e o n d b e c o m e a b n o m a l w h i l e, l a i n g a d i c, e h e S o n d O, l e e l o OFF.

# DVD Operation using On-Screen Displays

When **DISPLAY** is pressed, On-Screen Displays show disc information (title/channel / track number, elapsed playing time) and DECK information (eject/play, play mode).

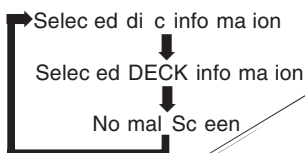


## Ready Checklist

☐ DECK is in DVD mode, play DVD.

- 1 Press **DISPLAY** in Playback Stop mode to display On-Screen Displays.

Each press of **DISPLAY** changes the on-screen display as follows. (Refer to p. 42.)

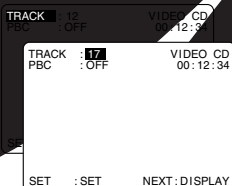
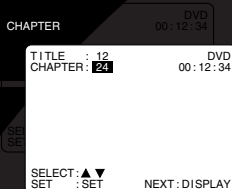


### Note

**DISPLAY** button does no function if TITLE MENU is displayed.

- 2 Press **▲▼** (or **◀▶**) to select an item, then press **SET**.

- 3 Press



# DVD Operation using On-Screen Displays (continued)

## Detailed Descriptions of each On-Screen Display

### ■ Disc information screen (for DVD)

#### 1. TITLE No.

Select TITLE, and press **SET**.\*

Change the No. by pressing **▲▼** or **NUMBER keys**, and press **SET**.

#### 2. CHAPTER No.

Select CHAPTER, and press **SET**.

Change the No. by pressing **▲▼** or **NUMBER keys**, and press **SET**.

#### 3. Disc currently being played

#### 4. Elapsed playing time

The screen may be changed by selecting the elapsed time.

Select the elapsed playing time ( : : ), and press **SET**.

Change the elapsed time by pressing **NUMBER keys**.

Hour → Minute → Second are entered in order.

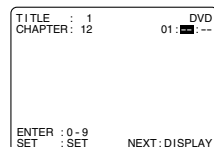
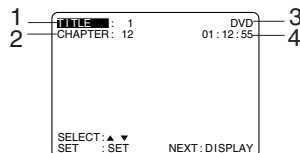
If the time entered is not on the disc, the screen will have no effect.

Re-enter the correct time.

e.g., 0 1 - 2 - 3 - 4 - 5 for 01 : 23 : 45.

Hour Minute Second

This function does not work when home disc.



If SET is pressed while making an entry, the condition before entry will be made.

### ■ Disc information screen (for Video CD/ CD)

#### A. TRACK No.

Select TRACK, and press **SET**.

Change the No. by pressing **▲▼** or **NUMBER keys**, and press **SET**.

#### B. Playback control ON/OFF

[Video CD will play back control only]

ON	Video CD menu play disabled.
OFF	Video CD menu play not disabled.

#### C. Disc currently being played

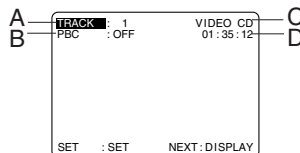
Video CD CD

#### D. Elapsed playing time

#### Note

Track No. and the elapsed playing time are not displayed during playback from memory of Video CD will play back control.

When a pause on the screen while a button is being operated, it means that the connection operation is prohibited by DECK on the disc.



### ■ DECK information screen (for DECK)

#### a. Repeat Play

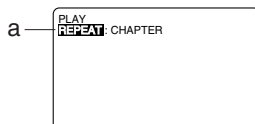
Select REPEAT, and press **SET**.

Change the desired mode by pressing **▲▼**, and press **SET**.

DVD	REPEAT CHAPTER	REPEAT TITLE	REPEAT OFF
Video CD/CD	REPEAT TRACK	REPEAT DISC	REPEAT OFF

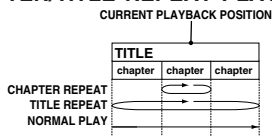
#### b. Play mode [Video CD/ CD only] (See p. 39 or 40.)

PROGRAM PLAY	Program play
RANDOM PLAY	Random play
----	No manual play

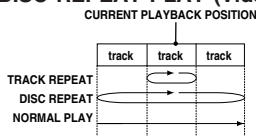


### For your reference

#### CHAPTER/TITLE REPEAT PLAY (DVD)



#### TRACK/DISC REPEAT PLAY (Video CD/CD)



#### Note

For operation in VCR mode, see p. 32.

# MP3/JPEG Playback Operation

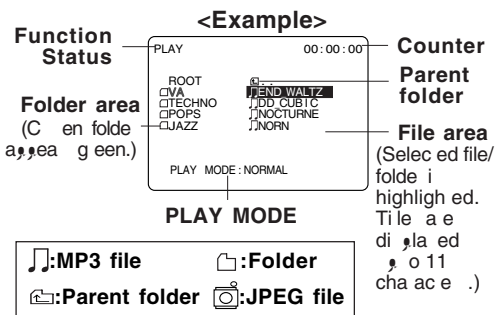
This can play MP3/JPEG format CD-R or CD-RW recorded for personal use on a PC, etc. Some discs may be damaged or the condition of the recording.

**1 Press POWER** on the remote of DECK.

**2 Press OPEN/CLOSE**, then place an MP3/JPEG disc in the deck.

**Press OPEN/CLOSE** once.

**3 MP3/JPEG menu** is displayed. Playback automatically (except JPEG file). CD deck automatically.



**<Example>** (Diagrams show how to use the CD deck OSD above.)

ROOT

- CVA
- END WALTZ
- JDO CUBIC
- JNOCTURNE
- JNORN
- TECHNO
- POPS
- JAZZ

## Notes

Only File (no Folder) is available. File is displayed in the following order: (1...0, 1...9, A, B, ... Z).

**4 Select file** (During STOP mode)

- 1) **Press ▲▼** to select an MP3 file (🎵).
- MP3 Playback (see page 44)
- 2) **Press ▲▼** to select a JPEG file (📷).
- JPEG Playback (see page 44)
- 3) **Press SKIP▶▶** (next) or **◀◀SKIP** (previous) to skip a file/folder page (7 files) in the file area.

**Select folder** (During STOP mode)

- 1) **Press ▲▼** to select a folder (📁).
- 2) **Press SET** to display the file/folder contained in the folder.

**Select parent folder** (During STOP mode)

- 1) **Press ▲▼** to select a folder (📁).
- 2) **Press SET** to make change to the recording of the disc.

**5 Press ACTION** on the DVD MAIN MENU. (→ Press **ACTION** again on the MP3/JPEG MENU.)

## MP3 Playback

**Do steps 1~3 on left.**

**a Press ▲▼** to select an MP3 file (🎵). (During STOP mode)

**b Press SET** or **PLAY** to playback.

### Forward/Reverse Search

**Press FF/SLOW+ or REW/SLOW** to display.

**Press PLAY** to play.

Search speed, low a file, increase the each additional speed of the button 5 times.

### Forward/Reverse Track Skip

**Press SKIP▶▶** or **◀◀SKIP** to display.

Each key skip a track.

If pressed within 3 seconds of playback, skip to the previous track. If 3 seconds or more of track (◀◀SKIP only).

▶ DECK in STOP mode before forming folder/file selection (see page 4).

### Pause

**Press PAUSE** to display.

**Press PLAY** to play.

**c Press STOP** to stop.

**d Press OPEN/CLOSE** to eject the disc. The MP3/JPEG is closed automatically.

### Select PLAY MODE [MP3 Playback]

(During STOP mode)

- 1) **Press ◀▶** to move to PLAY MODE.
- 2) **Press ▲▼** to select the desired PLAY MODE (see below).

#### [PLAY MODE]

##### NORMAL:

All MP3 files are selected and played back one time only.

##### SINGLE REPEAT:

The selected MP3 file is played back repeatedly.

##### FOLDER REPEAT:

The MP3 files contained in the selected folder are played back repeatedly. However, folders below the selected folder are not played back.

##### DISC REPEAT:

All MP3 files are played back repeatedly.

\*Imaginary:

If a remote control button does not work when pressed, the DVD button on the remote and the button again.

# MP3/JPEG Playback Operation (continued)

## JPEG Playback

You can play back JPEG image.

**Displayable Image Size:** 32 32~7680 7680 pixels

### Note

Some JPEG format may not be played back.

Do steps 1~3 on page 43.

**1** Press **▲▼** to select an JPEG file ( ).

**2** Press **SET** or **PLAY**.  
Selected JPEG file is displayed.  
[JPEG Playback Screen]



<Enlarge>

- Returned on the MP3/JPEG MENU  
⇒ Press **STOP**. (See p.43)
- Next/Previous Search  
⇒ Press **SKIP** or **SKIP**.
- Start Slide-show ⇒ Press **FF/SLOW+** or **REW/SLOW-**. (below)
- Enlarging an image ⇒ Press **ZOOM**. (P.45)
- Rotating an image ⇒ Press **ANGLE**. (P.45)

**3** Press **STOP** on the MP3/JPEG MENU.

## JPEG Slide-show

(During JPEG Playback.)

JPEG file is displayed automatically  
(about 3 seconds) as a slide-show.

**1** Press **FF/SLOW+** or **REW/SLOW-**.

<Enlarge>



Image change every 3 seconds.

- Cancel slide show  
⇒ Press **STOP** on the MP3/JPEG MENU. (See p.43)
- Still picture  
⇒ Press **STILL** (only SLIDE).  
⇒ Press **PLAY** to play.
- Forward/Reverse File Skip  
⇒ Press **SKIP** or **SKIP**.  
Each skip a file.

**2** Press **ACTION** on the DVD MAIN MENU.

## ■ Select PLAY MODE [JPEG Slide-show]

(During STOP mode) (See p.43)

- 1) Press **◀▶** to select a PLAY MODE.
- 2) Press **▲▼** to select the desired PLAY MODE (see below).

### [PLAY MODE]

#### NORMAL:

All JPEG file is selected and played back one time only.

#### SINGLE REPEAT:

The selected JPEG file is played back repeatedly.

#### FOLDER REPEAT:

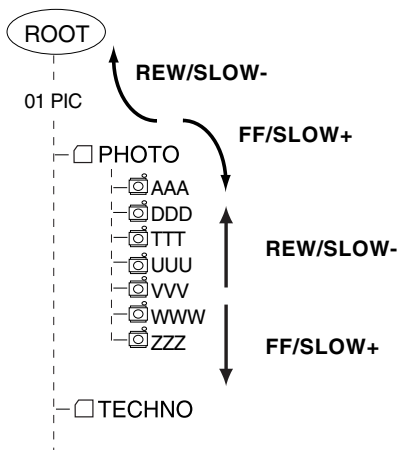
The JPEG file contained in the selected folder is played back repeatedly. However, folder below the selected folder is not played back.

#### DISC REPEAT:

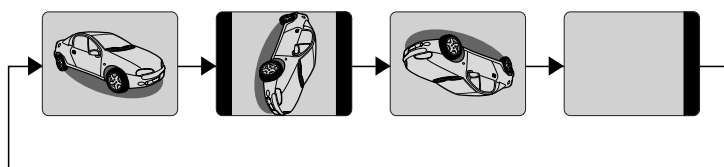
All JPEG file is played back repeatedly.

<Enlarge>

Operation can be done when file is in order, which is in the diagram below.







# DVD Lock Feature

**\*Important:** If a movie contains no lock when encoded, the DVD button on the remote and the button on again.

You can see the back of DVD of a specific rating level which may be not suitable for children.

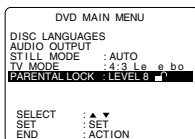
Some DVD are encoded with a rating level. If the disc is a rating higher (lower) than the one on the remote, the back will be prohibited.

## DVD Lock (DVD only)

A 4-digit code may be entered to prevent a blocked program from changing rating.

**1 Press ACTION\***  
to display DVD MAIN MENU.

**2 Press ▲▼**  
to select PARENTAL LOCK, and press **SET** to display.



**3 ENTER 4-DIGIT CODE**  
---  
ENTER : 0-9  
END : ACTION

**To Make Corrections**  
Press **◀** to edit the code.  
Press **NUMBER keys** to make the correction.

- 1) Press **NUMBER keys** to enter the code.
- 2) Enter the correct code again for confirmation.
- 3) Press **SET** to display.

See 2) to note when changing rating code. Take care not to accidentally enter the wrong code.

**4 PARENTAL LOCK**  
LEVEL 0  
LEVEL 1  
LEVEL 2  
LEVEL 3  
LEVEL 4  
LEVEL 5  
LEVEL 6  
LEVEL 7  
LEVEL 8  
NO LIMIT  
SELECT : ▲▼  
SET : SET  
END : ACTION

Press **▲▼◀▶**  
to select rating level, and press **SET**  
to select LOCKED or UNLOCKED.

**LEVEL 0 :** LOCK ALL, Play back of all DVD, CD, Video CD, MP3 and JPEG is prohibited.  
(Use or prohibit play of mature theme DVD not encoded with rating level.)

**LEVEL 1 :** mature theme DVD

**LEVEL 2 :** DVD is played for children can be played back.

**LEVEL 3 to 7 :** DVD for general audience / children can be played back. (DVD with mature content are prohibited.)

**LEVEL 8 :** NO LIMIT: (Factory set)  
All DVD can be played back.

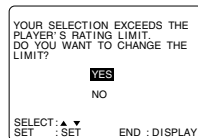
## Ready Checklist

☐ DECK is in DVD mode, the DVD.

## Caution

Discs not encoded with rating level will play even if the jacket states it is for mature audiences. For these discs, the DVD Lock Ratings will not work.

<When DVD Lock is activated>



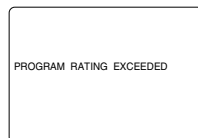
If the DVD Lock is set and a blocked DVD is played, the message will appear. The message may differ depending on the disc.

**To continue viewing a blocked program for now,**

Press **▲▼** to select YES and SET. Then, enter the 4-digit code (see page 3 left).

When NO is selected, blocked program cannot be viewed.

<When blocked programs>



## Change your secret code

You will need a new code.  
Do the 1 ~ 2 left.  
Enter the new code.  
Press **CLEAR** to clear the code.  
Do the 4 on the new code.

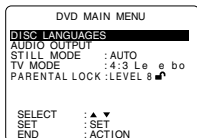
## Note

DO NOT forget the new code.

# Settings for DVD Operation

**1 Press ACTION** o di ,la DVD MAIN MENU.

**2 Press ▲▼** o elec an i em, and **press SET.**



## DISC LANGUAGES (See belo ▼)

All lang age offe ed on he di c can be e . If he lang age no offe ed i e , he o iginal di c lang age ill be elec ed.

## AUDIO OUTPUT (See ,. 48.)

Yo can e he a dio o , ha come fom he digi al a dio o , e minal.

## STILL MODE (See ,. 49.)

To elec FIELD (Field ill) o FRAME (Fame ill) o , e en ji e o make mall e o fine , a en clea i ible in a ill , ic e. When AUTO i e FIELD o FRAME i elec ed a oma icall .

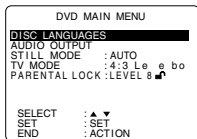
## TV MODE (See ,. 49.)

To elec he he he ideo ma e ial fo a Wde- c een ill be ,la ed back in he Pan & Scan le, Le e bo le o 16 : 9 le.

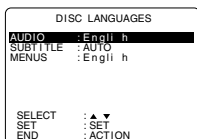
## Disc Languages (DVD only)

To elec and e he lang age of he a dio o nd ack, bile , o ile/DVD men fo all di c o be ,la ed.

**3 Press ▲▼** o elec o elec DISC LANGUAGES, and **press SET** o di ,la c een.



**4 Press ▲▼** o elec an i em, and **press SET** e ,ea edl fo de i ed lang age. (Plea e efe igh.)



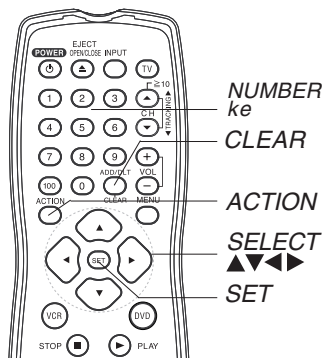
**5 Press ACTION** o edi ,la DVD MAIN MENU and go o e , 2 o e , an o he i em. O , **press ACTION** Wce o e i .

Once ini al e ing a e done, he emain in memo (e en af e o e off) n il changed. Thi mean DECK ill o , e a e nde he ame condi ion (e ,e ciall DVD ) each ime.



## Ready Checklist

☐ DECK i in DVD mode, , e DVD.



## "AUDIO" selections

(Fac o , e e : Engli h)

To elec he a dio o nd ack lang age.

**English/Spanish/French/Japanese**

**Original:** O iginal di c lang age

**OTHER \*\*\*\*:** O he lang age elec ion\*1

## "SUBTITLE" selections

(Fac o , e e : AUTO)

To elec he bile lang age.

**AUTO:** Same lang age elec ed fo AUDIO

• If lang age e fo AUDIO i ed in

,la back, bile ill no a ,ea .

• If ano he lang age i ed d ing

,la back, he bile ill a ,ea

in he lang age elec ed a AUDIO

e ,.

**English/Spanish/French/Japanese**

**OTHER \*\*\*\*:** O he lang age elec ion\*1

## "MENU" selections

(fac o , e e : Engli h)

To elec he lang age ed in ile

men o DVD men .

**English/Spanish/French/Japanese**

**OTHER \*\*\*\*:** O he lang age elec ion\*1

**To enter OTHER \*\*\*\* code number,**

**Press NUMBER keys** (Plea e efe o lang age code on ,. 50).

To make co ec ion , **press ◀**

e ,ea edl o dele e lang age code n mbe , and co ec .

\*1 If he elec ed lang age i no offe ed, he o iginal di c lang age i elec ed.

# Settings for DVD Operation (continued)

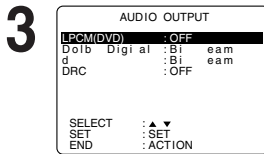
## Audio Output

Select the digital output from the original digital audio connection of DECK.

**1 Press ACTION\***  
to display DVD MAIN MENU.



**Press ▲▼**  
to select  
**AUDIO OUTPUT,**  
and  
**press SET**  
to display screen.



**Press ▲▼**  
to select an item,  
and  
**press SET**  
to proceed to  
the next screen. (See below)

### ■ "LPCM (DVD)" selections

**OFF:** Linea PCM of less than 48 kHz /16 bit is selected. When playing DVD recorded in linea PCM of more than 48 kHz /20 bit, no digital audio output. (Factory setting)

**PCM:** When playing DVD recorded in linea PCM of 48 kHz /20 bit /24 bit or more, digital audio connection of 44.1 kHz /16 bit or 48 kHz /16 bit is selected. (Digital output of PCM audio is selected or 48 kHz /16 bit or below for compatibility.)

### ■ "Dolby Digital" selections

**Bitstream:** Dolby Digital bitstream (1ch-5.1ch) is selected. (Factory setting)

**PCM:** When the amplifier has been connected to the amplifier, the Dolby Digital decode.

### ■ "DTS" selections

**Bitstream:** DTS bitstream is selected. (Factory setting)

**PCM:** When the amplifier has been connected to the amplifier, the DTS decode.

### ■ "DRC (Dynamic Range Compression)" selections

**OFF:** No mal audio angle is selected. (Factory setting)

**ON:** For dynamic sound in a low volume, high level for low-level listening. [Dolby Digital DVD only].



### Ready Checklist

☐ DECK is in DVD mode, the DVD.

Type of amplifier to be connected	Recommended setting		
	LPCM (DVD)	Dolby Digital	DTS
No amplifier connected	---	---	---
AV amplifier (which digital audio connection) which Dolby Digital/DTS decode	PCM	PCM*1	PCM*1
AV amplifier including Dolby Digital decode	PCM	Bitstream	PCM
AV amplifier including Dolby Digital/DTS decode	PCM	Bitstream	Bitstream*2

Make setting according to amplifier connected to original audio output. Make the following.

\*1 When connecting an amplifier (which has an original digital connection) which does not contain the Dolby Digital or DTS decode, be sure to select PCM. If Bitstream is selected, a long DVD playback may cause a high level of noise or be harmful to the ears and damage the speakers.

\*2 When a DTS decode is connected, please select Bitstream in DTS.

**4 Press ACTION** to display DVD MAIN MENU and go to the next screen.

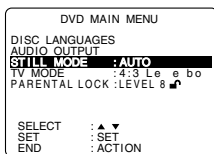
Or, press **ACTION** once to exit.

## Still Mode

Se o ed ce ji e in a di ,la ed ill ,ic e o a mo ion ,ic e.

1

2



Press **▲▼**  
o elec STILL MODE,  
and  
press **SET** e,ea dl  
fo mode. (See belo **W**)

**AUTO:** FIELD (Field ill) o FRAME (F ame ill) i  
a oma icall elec ed d ing he ill mode.  
(Fac o , e e)

**FIELD:** FIELD (Field ill) i al **W** elec ed.  
Thi e ing **W**ll ed ce ji e **W**hen com,a ed  
**W**h AUTO on ome di c .

**FRAME:** FRAME (F ame ill) i al **W** elec ed.  
Some e and fine ,a e n **W**ll be een clea l  
**W**hen com,a ed **W**h AUTO on ome di c .

3

Press **ACTION**  
o e i hi mode.

## TV Mode

Se he c een di ,la le fo **W**de- c een ideo  
ma e ial ,la back.

1

2

Press **▲▼**  
o elec TV MODE,  
and press **SET**  
e,ea dl fo mode.  
(See belo **W**)

**4:3 Pan & Scan** (Fac o , e e) :  
Wide- c een ideo da a i ,la ed in Pan & Scan  
le (lef and igh of c een i immed.)  
Video da a no fo ma ed in Pan & Scan **W**ll ,la  
in le e bo le.

**4:3 Letterbox :**  
Wide- c een ideo da a i ,la ed in Le e bo  
le (o, and bo om of c een ha black ma gin).

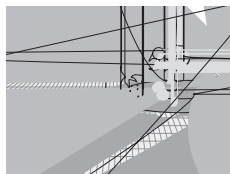
**16:9 :**  
Se 16:9 **W**hen ing Wide- c een TV.

3

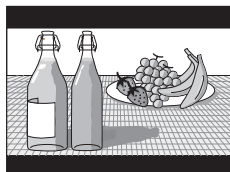
Press **ACTION**  
o e i hi mode.

### Example

- Pan & Scan (Fac o , e e)



- Le e bo



# Language Code List

Enter the appropriate code number for the initial setting AUDIO , SUBTITLE and/or MENUS ( see p. 47).

Code	Language	Code	Language	Code	Language	Code	Language
6565	Afa	7079	Fa o e e	7678	Lingala	8375	Slo ak
6566	Abkha ian	7082	F ench	7679	Lao hian	8376	Slo enian
6570	Af ikaan	7089	F i ian	7684	Li h anian	8377	Samoa
6577	Ameha ic	7165	I i h	7686	La ian, Le i h	8378	Shona
6582	A abic	7168	Sco Gaelic	7771	Malaga	8379	Somali
6583	A ame e	7176	Galician	7773	Mao i	8381	Albanian
6588	A ma a	7178	G a ani	7775	Macedonian	8382	Se bian
6590	A e baijani	7185	G ja a i	7776	Mala alam	8385	S ndane e
6665	Ba hki	7265	Ha a	7778	Mongolian	8386	S wedi h
6669	B elo ian	7273	Hindi	7779	Molda ian	8387	S ahili
6671	B lga ian	7282	C oa ian	7782	Ma a hi	8465	Tamil
6672	Biha i	7285	H nga ian	7783	Mala	8469	Tel g
6678	Bengali; Bangla	7289	A menian	7784	Mal e e	8471	Tajik
6679	Tibe an	7365	In e ling a	7789	B me e	8472	Thai
6682	B e on	7378	Indone ian	7865	Na	8473	Tig in a
6765	Ca alan	7383	Icelandic	7869	Ne ali	8475	T kmen
6779	Co ican	7384	I alian	7876	D ch	8476	Tagalog
6783	C ech	7387	Heb e w	7879	No egian	8479	Tonga
6789	Wel h	7465	Ja ane e	7982	O i a	8482	T ki h
6865	Dani h	7473	Yiddi h	8065	Panjabi	8484	Ta a
6869	Ge man	7487	Ja ane e	8076	Poli h	8487	T w
6890	Bh ani	7565	Geo gian	8083	Pa ho, P ho	8575	Uk ainian
6976	G eek	7575	Ka akh	8084	Po g e e	8582	U d
6978	Engli h	7576	G eenlandic	8185	Q ech a	8590	U bek
6979	E e an o	7577	Cambodian	8277	Rhae o-Romance	8673	Vie name e
6983	S an i h	7578	Kannada	8279	Romanian	8679	Vola k
6984	E onian	7579	Ko ean	8285	R ian	8779	Wolof
6985	Ba e	7583	Ka hmi i	8365	San k i	8872	Xho a
7065	Pe ian	7585	K di h	8368	Sindhi	8979	Yo ba
7073	Finni h	7589	Ki ghi	8372	Se bo-C oa ian	9072	Chine e
7074	Fiji	7665	La in	8373	Singhale e	9085	Z I

# Warning and Instruction Displays

The e d i g l a    W l l a l e    o    o a m i e d o e a i o n o    o i d e f    h e i n    c i o n .

OSD	Caution	Page
PLEASE SET CLOCK BY PRESSING ACTION KEY	If o a em, o e o e i e w a Time Reco ding and he Clock i no e...	24
PLEASE PREPARE FOR TIMER REC	If DECK i no in So, mode o a ca e e W h eco d a b i no in e ed 2 min e befo e a Time Reco ding i abo o begin...	24 25
CHECK CASSETTE RECORD TAB	If o e e REC on he emo e con ol o DECK, and a ca e e i in e ed W h no eco d ab...	6
NO CASSETTE	If o e e PLAY, FF, REW, o REC on he emo e con ol o DECK W ho a ca e e in e ed...	20 21
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If o e e STOP o POWER d ing a Time Reco ding... ( i ble in VCR mode onl )	25
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL  END : PLAY	If head cleaning become nece a W hile g l a ing back a a e...	6
VCR LOCK ACTIVATED	If o e e a f n c i o n b on o he han STOP/ EJECT o POWER W hile DECK i in VCR Lock mode...	33
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE DVD : DVD KEY	If o e e an in alid ke on he emo e W hile in TV mode...	28 29 34
PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC	If o e e PLAY, and he DECK ead da a f om a ained o c ached di c in DVD mode.	4
THIS DISC MAY NOT BE PLAYED IN YOUR REGION	Pla back of a di c W h diffe en egion n mbe W a a em, ed. Onl di c ma ked egion 1 , ALL , o ho e ha incl de 1 a e g l a ble on hi DECK.	3
THIS TYPE OF DISC CANNOT BE PLAYED. PLEASE INSERT A DIFFERENT DISC	An n able di c i in e ed in he DECK.	4
CANNOT PLAY THIS FILE	Thi file fo ma canno be g l a ed. (A g e a d ing MP3/JPEG file g l a back)	43
IT IS PROHIBITED TO COPY DVD/VIDEO CD/CD TO VHS	If o e e REC in DVD mode...	21

For Your  
Information

# Before Requesting Service

Check the following points if you are having trouble with the DECK.

Power	Correction
No power	Complete the Power Plug in an AC outlet. Set POWER button on. Make the power connection.
Power is off...	A power-off (hold off) occurs after about 5 min. in DVD mode when no operation, or if the external broadcast signal in TV Playback mode. Turn the power back on. (p. 23, 33)
Recording & Playback	Correction
TV program cannot be recorded...	Check connection between DECK, external antenna, and TV. Check channel selection. Make the external antenna (CABLE or TV) in corrected. (Channel [p. 18]) Make the cable recording in advance. (p. 6)
Time recording cannot be performed	Confirm the clock is correct in time and date. Make the Cable/DSS box (if used) left on and selected channel can be recorded. Set recording start / stop time correctly. (p. 24) Time recording may not be performed continuously if a power line interruption occurs before recording a Time Recording, even after power is restored.
The external playback signal, or the playback signal is not contained in the ...	Select channel 3 or 4 on TV or match VCR or channel (3 or 4) (p. 16) or select LINE. Set VCR/TV select to VCR. Adjust TRACKING control in the direction. (p. 6) Turn Head Cleaning. (p. 6)
During special effect playback, signal may contain some external noise when using a TV when Automatic Video Hold Control...	Set TV's Video Hold Control to MANUAL, then adjust.
DECK cannot be controlled...	Make the DECK power on. Check Remote battery. Make the VCR LOCK is off. (p. 33) Make the Remote in standby mode. (p. 28) Make the Time Recording in standby mode.
Remote Control	Correction
DECK cannot be remotely controlled...	Make the DECK power on. Make the Remote in VCR mode. Aim Remote Control directly at remote sensor on DECK. (p. 9) Avoid any object blocking signal path. Check Remote battery. (p. 4) Ejecting DECK remote sensor or disconnect the cable or do not light the cable signal in the future.
PROG button does not respond...	PROG function is not available in COMPONENT Video Out and S-VIDEO OUT. Set TV to either RF IN or VIDEO IN. (p. 10) Check Remote battery. (p. 4) Press VCR or DVD button for DVD/VCR mode. (p. 28)



Check the following points if you are having trouble with the DECK.

DVD/ Video CD/ CD	Correction
Plasma fail to operate when PLAY is pressed...	This DECK cannot play discs other than DVD, Video CD and CD. The disc may be dirty and needs cleaning.
Plasma bulb has not started immediately...	Be patient; it is normal for the label side of the disc to be illuminated.
Pictures do not appear and advance to the next scene...	The picture will be shown when the disc is in the correct position. Some discs may have a scene which prohibits the disc from advancing to the next scene. (p. 23)
No sound when the disc is played...	Confirm the DVD LOCK is engaged. (p. 46)
Audio not heard and/or the language selected on the disc is not heard...	If the audio not heard and/or the language selected on the DVD initial screen does not correspond to the disc, it will not be acceptable. S-bility appears only when available on disc. OFF is selected on the changing language. Select ON on the S-bility Language 7262) is
Audio is not heard and/or (S-bility) language cannot be selected...	
Angle cannot be changed...	
Miscellaneous	Correction
Program cannot be viewed on TV...	Make sure the TV is on of DECK. Check connection between DECK, external antenna, and TV. Set VCR/TV select on TV. (p. 21) Make sure the signal source is selected.
Video cannot be inserted...	Insert the cassette with the window side facing out.
Video cannot be ejected when a recording is made or the power is turned off for time recording...	Make sure the cassette is recorded in the correct direction. (p. 6)
In Stop mode, the motor (CYLINDER) continues to operate...	To enable Quick Start mechanism, the cylinder will operate for about 3 minutes. This device is on the time from Stop to Play mode.
The disc cannot be removed...	First, stop the DECK. Then, press the eject button (e.g. an ended tape clip) and, after the mode is set to stop, insert the disc into the hole at the back of the unit. The disc will be ejected. No, it will be a full disc and remove the disc. (p. 9)

# Limited Warranty

PANASONIC CONSUMER ELECTRONICS COMPANY,  
DIVISION OF MATSUSHITA ELECTRIC  
CORPORATION OF AMERICA  
One Panasonic Way, Secaucus, New Jersey 07094

PANASONIC SALES COMPANY, DIVISION OF MATSUSHITA  
ELECTRIC OF PUERTO RICO, INC.,  
AVE. 65 de Infancia, Km. 9.5 San Gabriel Industrial Park,  
Caguas, Puerto Rico 00985

## Panasonic/Quasar Video Products Limited Warranty

### Limited Warranty Coverage

If our product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as the "Manufacturer"), will, for the length of the warranty indicated on the chart below, which is the date of original purchase (the "Warranty Period"), at our option either (a) repair or replace the product without charge, or (b) replace the product with a new one of similar type. The decision of repair or replacement will be made by the Manufacturer.

Product	Parts	Labor	Service	Contact Number
Camcorder	One (1) Year (electronic components) CCD Image Sensor - 6 (Si) Months	Nine (90) Days Nine (90) Days	Cash-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR Deck, A/V Mixer	One (1) Year	Nine (90) Days	Cash-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD, TV/DVD/VCR Combination	One (1) Year (electronic components) CRT - Two (2) Years	Nine (90) Days Nine (90) Days	Cash-In: 21 CRT and Smaller In-Home or Cash-In: 22 CRT and Larger	1-800-211-PANA(7262)
TV/HDR Combination	One (1) Year (electronic components) CRT - Two (2) Years	Nine (90) Days Nine (90) Days	In-Home or Cash-In	1-888-843-9788
Rechargeable Battery (in exchange for defective item)	Ten (10) Days	No Appliance	Cash-In or Mail-In	1-800-211-PANA(7262)
Tape (in exchange for defective item)	Five (5) Days	No Appliance	Cash-In or Mail-In	1-800-211-PANA(7262)
Memo Card (in exchange for defective item)	Nine (90) Days	No Appliance	Cash-In or Mail-In	1-800-211-PANA(7262)

During the Warranty Period, the product will be no charge for labor. During the Warranty Period, the product will be no charge for parts. Your cash-in or mail-in or product or a charge for in-home service, as applicable, during the Warranty Period.  
If non-rechargeable battery is included, the warranty is not extended. This warranty only applies to product purchased and received in the United States of Puerto Rico. This warranty is extended only to the original purchaser of a new product which is not old stock. A purchaser's receipt of the product of the original purchase date is required for warranty service.

### Carry-In, Mail-in or In-Home Service

For Cash-In, Mail-In or In-Home Service (as applicable) in the United States call toll free consumer membership line about the Panasonic Web Site: <http://www.panasonic.com>

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

In-Home service, if applicable, is free of charge, complete and easy access to the product by the authorized service and does not include removal or installation of an installed product. Liability is limited to the original purchaser of the product and will not be complete in-home. We will not be responsible for the product, or for the product, be removed for diagnosis and/or repair and then returned.

## Limited Warranty Limits And Exclusions

This **WARRANTY** ONLY COVERS failure due to defect in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover making or obtaining image on the picture by using the original image (including, among other things, the electronic on standard 4:3 color TV, or non-standard 4:3 picture on wide screen TV, or on color data in a digital and fixed location). The **WARRANTY** ALSO DOES NOT COVER damage which occurred in shipment, or failure which are caused by accident, or applied by the **WARRANTY** owner, or failure which result from accident, misuse, abuse, neglect, mis-handling, mis-application, alteration, fall in installation, electrical adjustment, misadjustment of control, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, electricity from other than a factory service or other authorized service, or damage caused by a fire or flood of God.

**THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.** (An example, the electrical damage to the time, cost of having someone remove the unit from all installed and applicable, or a delay from the service, loss of media or image, data or other memory recorded content. The item listed are not electrical, but are for installation only.)

**ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some areas do not allow the electrical limitation of incidental or consequential damage, or limitation on how long an implied warranty lasts, or the electrical manufacturer's policy.

This warranty gives no specific legal rights and may vary from the rights which a consumer has. If a problem with the product develops during the warranty period, or make contact with the dealer or service center. If the problem is not handled to your satisfaction, then write to the **WARRANTY** owner's Consumer Affairs Department to have the matter handled for the **WARRANTY** owner.

**PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.**

## Customer Services Directory

*For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:*

**1-800-211-PANA (7262), Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST.**  
*or send e-mail : [consumerproducts@panasonic.com](mailto:consumerproducts@panasonic.com)*

**For hearing or speech impaired TTY users, TTY : 1-877-833-8855**

**Web Site: <http://www.panasonic.com>**

**You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.**

### **Accessory Purchases:**

**1-800-332-5368 (Customer Orders Only)**

**For hearing or speech impaired TTY users, TTY : 1-866-605-1277**

**Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032**

**(6 am to 5 pm Monday - Friday; 6 am to 10:30 am Saturday; PST)**

**(Visa, MasterCard, Discover Card, American Express, Check)**

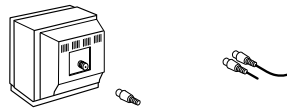
### **Service in Puerto Rico**

**Matsushita Electric of Puerto Rico, Inc. Panasonic Sales Company/ Factory Servicenter:**

**Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985**

**Phone (787)750-4300 Fax (787)768-2910**

For Your  
Information





## Operaciones básicas del DVD

- 1** Presione **POWER** en el control remoto o el aparato.
- 2** Presione **DVD** para seleccionar el modo DVD.
- 3**
  - 1) Presione **OPEN/CLOSE**.
  - 2) Ponga el disco en la bandeja de disco. Si el disco está en posición de inserción, presione el lado donde el disco se alinea con la guía, presione en la parte superior del disco (8 cm) / Diámetro de 5 (12 cm)
- 4** Presione **PLAY** para iniciar la reproducción. La bandeja del disco se cierra automáticamente.  
Si está en modo DVD (Inserción de DVD) o en modo Video CD con el disco de reproducción (la back con el) aparecerá en la pantalla (TITLE MENU) en la pantalla, siga al paso 5.
- 5** Presione **▲▼◀▶** para seleccionar el capítulo de reproducción.  
Presione **SET** o **PLAY** para iniciar la reproducción.  
Si usa las teclas numéricas, la reproducción comienza automáticamente.
- 6** Presione **STOP** para pausar la reproducción.
- 7** Presione **OPEN/CLOSE** para extraer el disco.

### ■ Para buscar una escena particular

#### Búsqueda hacia adelante

Presione **FF/SLOW+** en el modo de reproducción.

#### Búsqueda hacia atrás

Presione **REW/SLOW-** en el modo de reproducción.

(Para liberar, presione **PLAY**)

### ■ Para saltar un capítulo o una pista

#### Salto hacia adelante

Presione **SKIP ►►** en el modo de reproducción.

Un capítulo (DVD) o una pista (Video CD/CD)

se saltará y se reproducirá la escena.

#### Salto hacia atrás

Presione **◄◄ SKIP** en el modo de reproducción.

### ■ Para ver una imagen fija

Presione **PAUSE/STILL** durante la reproducción.

(Para liberar, presione **PLAY**)

### ■ Para ver imágenes cuadro a cuadro

(DVD/Video CD)

Presione **PAUSE/STILL** en el modo de imagen fija.

La imagen aparecerá en cada escena y se

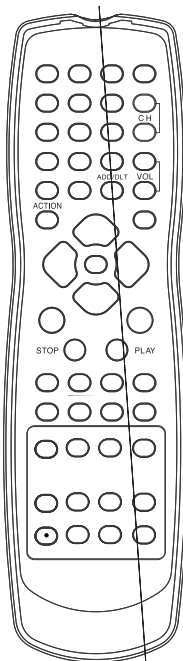
reproducirá la escena. (Para volver a la

reproducción normal, presione **PLAY**.)

### ■ Para ver en cámara lenta (DVD/Video CD)

Presione **FF/SLOW+** o **REW/SLOW-** en el modo de imagen fija.

(Para liberar, presione **PLAY**)

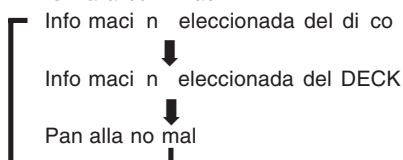


## Funcionamiento del DVD utilizando visualizaciones en pantalla

Cuando se presiona **DISPLAY**, la información en pantalla muestra la información del disco (título / capítulo / número de lista, tiempo restante de reproducción, idioma del título, ángulo) e información (ejemplo: la reproducción, modo reproducción, Kárate encendido / apagado, etc.).

- 1 Presione **DISPLAY** en el modo reproducción o para cambiar la información en pantalla.

Cada vez que se presiona **DISPLAY**, la información en pantalla cambia como se muestra a continuación.



- 2 Presione **▲▼** (o **◀▶**) para seleccionar el menú de reproducción.

Presione **SET** para ajustar.

- 3 Presione **▲▼** para seleccionar el ajuste de reproducción.

Presione **SET** para ajustar.

Para volver a la pantalla normal,

Presione el botón de **CLEAR** o **DISPLAY**.

<Ejemplo (DVD)>

<Ejemplo (Video CD)>

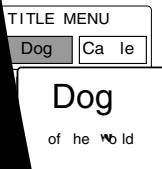
# Spanish Quick Use Guide/ Guía para rápido

## Utilización de un menú de títulos [DVD solamente]

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lo . Po ejem lo , i el di co iene n men de  
lo g abado , el bo n TITLE od ili a e  
a elecciona el lo de la el c la.

**Presione TITLE durante la reproducción.**

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di co.



**Presione ▲▼◀▶ o las teclas de números para elecciona el lo de eado.**

**Presione SET para elegi .**

## Utilización de un menú [DVD solamente]

Alg no di co DVD of ecen n t  
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i ali a aho a.

**2 Presione ▲**  
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**Presione S**

## Utilización de la imagen [DVD solamente]

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hacia a iba, hacia abajo, hacia la  
hacia la de echa.

X 1.0 (ORIGINAL)



tera  
pulsación







## DECK & VCR

- A** ACTION button ..... 8, 18
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